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Gidas

Database description

Update 2016/11/03

Index

1.	Handbook purpose	3
2.	Database description	4
2.1.	Schemas	4
2.2.	Database version	4
2.3.	Additional modules support	4
2.4.	Main diagram of data tables.....	5
2.5.	Structure of data stored in database	6
2.5.1.	Data Table	6
2.5.2.	E-Log Tables.....	29
2.6.	Users.....	29
2.6.1.	Users Database.....	29
2.7.	Stored procedures.....	30
2.7.1.	Stored procedures that operates on data.....	30
2.8.	Views	30
3.	Database connection	31
3.1.	Example: connection strings	31
4.	Data storage.....	31
4.1.	Example: instrument E-Log type	31
5.	Data extraction	34
5.1.	List of the measures and their processings associated to one survey.....	34
5.2.	Extraction of elaborated data	35
5.3.	Extraction of instantaneous data	36
6.	Installation scripts	36
6.1.	Database creation first step:	36
6.2.	Database creation second step:	38
6.3.	Users Login and Account:.....	86

1. Handbook purpose

Gidas is a Microsoft SQL Server compatible database, and it's used by LSI LASTEM programs for storage of data acquired and elaborated through the instruments. This handbook describes the technical characteristics of the database.

To get information about installing and managing Gidas database and SQL Server see the *Gidas database management* document.

2. Database description

2.1. Schemas

Database includes following schemas:

1. *Core*: it includes the main components of database (data and their structures);
2. *Viewer*: it includes the specific components used the by program *GidasViewer*.

2.2. Database version

The table *Core.GidasVersion* includes the fields *Version* [*varchar(15)*] and *ReleaseDate* [*datetime*] which represent current version of database.

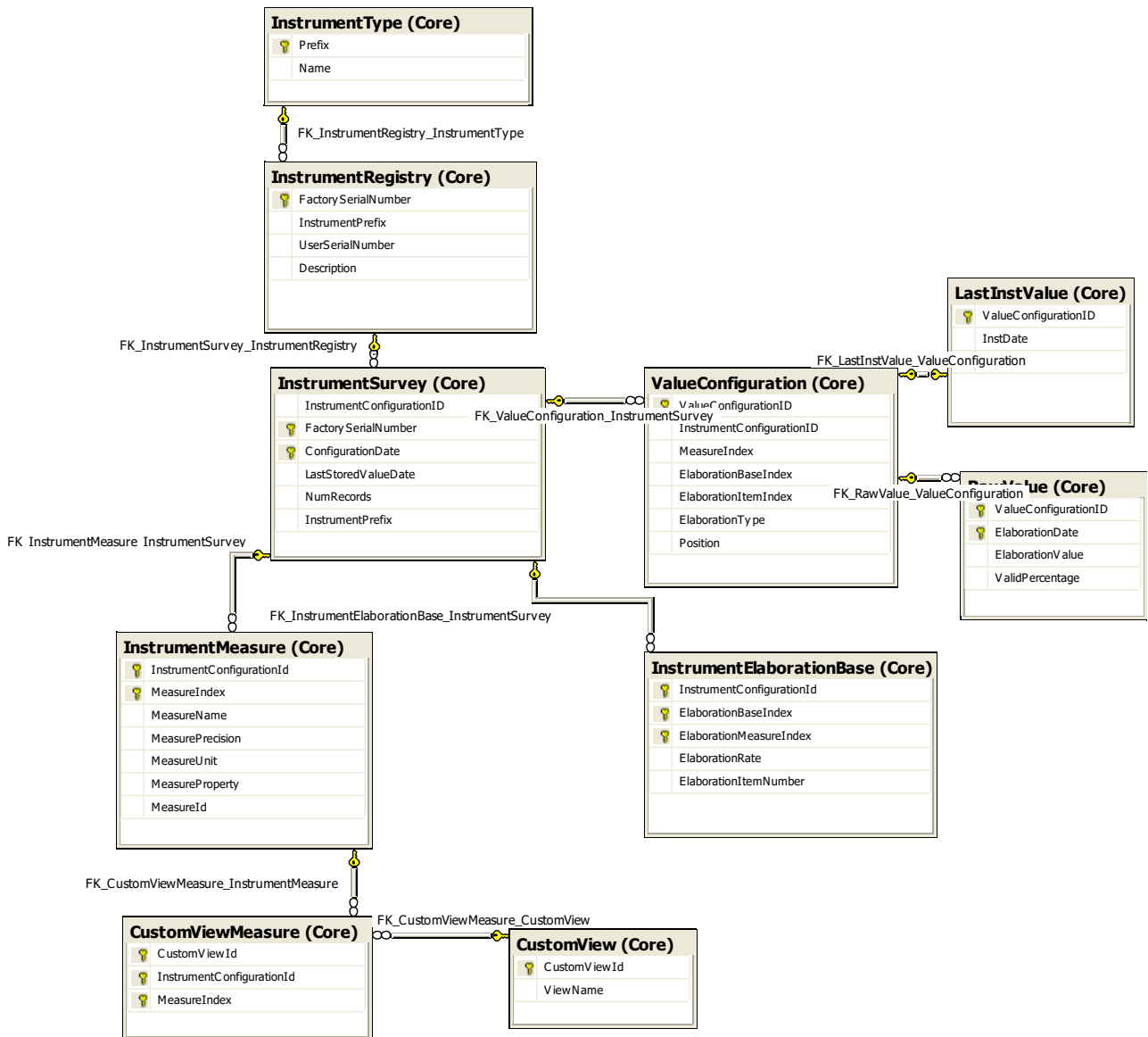
In order to know the current version of database follow the stored procedure *Core.spGidasVersion_Get*.

2.3. Additional modules support

The database support the installation of additional modules (for example the additional module Synop used with the GidasToSynop program to generate Synop meteorological bulletin). Additional modules are inserted into the *Core.AddIns* table (§ ref. 2.5.1.3).

For information on the additional modules the relative manuals are seen.

2.4. Main diagram of data tables



This is the main diagram of table *Dati* of database: it shows the tables of the data and their connections.

All connections set up the update and the delete of cascading connected fields.

2.5. Structure of data stored in database

2.5.1. Data Table

The tables *Data* include the structure for data storage, it's the same for all LSI LASTEM instruments:

Core.InstrumentType: it includes the description of instruments supported by database. Fields:

- *Prefix*: it shows the instrument type;
- *Name*: description of the instrument;

Core.InstrumentRegistry: it includes the instruments entered into database. Fields:

- *FactorySerialNumber*: instrument's serial number;
- *InstrumentPrefix*: it identifies the instrument's type;
- *UserSerialNumber*: serial number that user may input in the instrument;
- *Description*: description of the instrument;
- *DbDescription*: description of the instrument added by GidasViewer program

Core.InstrumenSurvey: it includes the couple <serial number - survey>. For E-Log instruments the survey has the same date of instrument's configuration. Fields:

- *InstrumentConfigurationID*: table's Identity;
- *FactorySerialNumber*: instrument's serial number;
- *ConfigurationDate*: date of configuration setup;
- *InstrumentPrefix*: instrument type;
- *LastStoredValueDate*: date of storage of last datum;
- *NumRecords*: records number of stored data;

Core.InstrumenMeasure: it includes the measures combined to each survey. Fields:

- *Core.InstrumentConfigurationID*: ID of table *Core.InstrumentSurvey* connected.
- *Core.MeasureIndex*: index of measure in configuration;
- *Core.MeasureName*: measure's name;
- *Core.MeasurePrecision*: measure's precision (number of decimal digits);
- *Core.MeasureUnit*: string that shows the unit of measurement of each measure;
- *Core.MeasureProperty*: string of integers separated by coma; they represent the properties of measure;
- *Core.MeasureId*: integer that represents the measure type

Core.InstrumentElaborationBase: it includes the processing bases connected to each measure. The E-Log instruments have only one processing base for each processed measure. Fields:

- *Core.InstrumentConfigurationID*: ID of connected table *Core.InstrumentSurvey*.
- *Core.ElaborationMeasureIndex*: index of connected measure;
- *Core.ElaborationBaseIndex*: index of processing base;
- *Core.ElaborationRate*: elaboration rate (expressed in seconds);

- *Core.ElaborationItemNumber*: number of elaborations associated to this measure and this elaboration base

NOTE

Field *Core.ElaborationBaseIndex* for instantaneous data has value -1 (see 2.5.1.1).

Core.ValueConfiguration: it includes the information required for identifying of each datum. Fields:

- *ValueConfigurationID*: identity of the table;
- *InstrumentConfigurationID*: it identifies the record of table *Core.InstrumentSurvey* of the reference configuration;
- *MeasureIndex*: it identifies the measure;
- *ElaborationBaseIndex*: it identifies the elaboration base;
- *ElaborationItemIndex*: it identifies the item in the elaboration mask (for example: the item 1 in the elaboration mask *MinMaxAve* is *Max*);
- *ElaborationType*: integer that represents the type of elaboration associated to the datum (linked to table *Core.ElabTypeList*)
- *Position*: position of the datum inside data record coming from the instrument.

NOTE

All indexes have base 0. The fields *Core.ElaborationBaseIndex*, *Core.ElaborationItemIndex* *Core.ElaborationType* for instantaneous data have value -1 (see 2.5.1.1).

Core.RawValue: it includes the real data. Fields:

- *ValueConfigurationID*: it identifies the datum in the table *Core.ValueConfiguration*;
- *ElaborationDate*: storage date of elaborated datum;
- *ElaborationValue*: value processed by the instrument;
- *ValidPercentage*: percentage of data used for value processing;

Core.LastInstValue: it includes last instantaneous data logged by each instrument. Fields:

- *ValueConfigurationID*: it identifies the datum inside the table *Core.ValueConfiguration*;
- *InstDate*: storage date of instantaneous datum;
- *InstValue*: last instantaneous value downloaded from the instrument;

2.5.1.1. Storage of instantaneous data

The instantaneous data are stored in two tables:

- *Core.RawValue*
- *Core.LastInstValue*

Only last instantaneous data downloaded from the instrument are stored (for each measure) in the table *Core.LastInstValue*. But in the table *Core.RawValue* are stored all downloaded instantaneous data; in this way they're available for further re-processings. The instantaneous data stored in the table *Core.RawValue* are assigned to an elaboration base that have got following values:

- *Core.InstrumentConfigurationID*: table ID *Core.InstrumentSurvey* linked;

- *Core.ElaborationMeasureIndex*: index of connected measure;
- *Core.ElaborationBaseIndex*: -1;
- *Core.ElaborationRate*: 1;
- *Core.ElaborationItemNumber*: 1.

In order to identify these values use like filter the value *Core.ElaborationBaseIndex*= -1.

2.5.1.2. CustomView

A *CustomView* represents a group of measures belonging to different surveys or instruments. The *CustomView* are defined by the users and are represented in two tables.

Core.CustomView: it's a view that can be generated by the user. Fields:

- *CustomViewId*: table ID;
- *ViewName*: name associated to the table.

Core.CustomViewMeasure: it includes the measures associated to a view. Fields:

- *CustomViewId*: table ID;
- *InstrumentConfigurationID*: ID of the couple instrument – survey of measure's source;
- *MeasureIndex*: index of measure in the survey.

2.5.1.3. Other data tables

Core.ElabTypeList: it includes the list of different processings used by the measures. Fields:

- *IdElabType*: table ID;
- *ElabTypeString*: string that identifies the elaboration type made by the instrument about the datum;
- *ElabTypeToDo*: string that identifies the simple re-elaboration type that can be applied to this type of elaboration.

-1	Inst (n.e.)	Ave
0	Nothing	Nothing
1	Inst	Ave
2	Min	Min
3	Ave	Ave
4	Max	Max
5	StdDev	Nothing
6	Tot	Sum
7	Duration	Sum
8	PrevDir	AvgDirection
9	RisDir	AvgDirection
10	RisVel	Ave
11	StdDevDir	Nothing

12	CalmPerc	Ave
13	ValidDataPerc	Ave
14	PSBisect	AvgDirection
15	PSPrevDir	AvgDirection
16	PSPrevVel	Ave
17	PSStdDevDir	Nothing
18	DirFreq1	Ave
19	DirFreq2	Ave
20	DirFreq3	Ave
21	DirFreq4	Ave
22	DirFreq5	Ave
23	DirFreq6	Ave
24	DirFreq7	Ave
25	DirFreq8	Ave
26	DirFreq9	Ave
27	DirFreq10	Ave
28	DirFreq11	Ave
29	DirFreq12	Ave
30	DirFreq13	Ave
31	DirFreq14	Ave
32	DirFreq15	Ave
33	DirFreq16	Ave

NOTE

Value `-1,Inst` (n.e.) is the pure instantaneous value whereas value `1,Inst` is instantaneous value associated to elaboration.

Values form 14 are relatives to Babuc ABC instruments.

Core.RegistryLog: it includes the confidential information internally used.

Core.AddIns: it includes the list of additional module. Fields:

- *AddInCode*: string that identifies the additional module;
- *Description*: description of the additional module;
- *AttachedDate*: installation date of the additional module.

2.5.1.4. External library Files

The values of fields *MeasureProperty* and *MeasureId* of the table *Core.InstrumentMeasure* are located in one library file used by LSI LASTEM applications. This is the file:

```
C:\Documents and Settings\All Users\Application Data\LSI-Lastem\S1tn2\Lib\[Culture]\MeasureAttributes.xml
```

This is the contents of the file:

```
<?xml version="1.0" encoding="utf-8"?>
<MeasureAttributes>
  <Culture>it</Culture>
```

```

<MeasureId>
  <Item code="0" text="Not defined" />
  <Item code="1" text="Temperature" />
  <Item code="2" text="Humidity" />
  <Item code="3" text="Pressure" />
  <Item code="4" text="Angle" />
  <Item code="5" text="Direction" />
  <Item code="6" text="Speed" />
  <Item code="7" text="Radiation" />
  <Item code="8" text="Rain" />
  <Item code="9" text="Presence" />
  <Item code="10" text="MetricLevel" />
  <Item code="11" text="Illumination" />
  <Item code="12" text="ThermalFlux" />
  <Item code="13" text="Concentration" />
  <Item code="14" text="SoundLevel" />
  <Item code="15" text="Acidity" />
  <Item code="16" text="Displacement" />
  <Item code="17" text="Count" />
  <Item code="18" text="Asymmetry" />
  <Item code="19" text="Enthalpy" />
  <Item code="20" text="Rate" />
  <Item code="21" text="Product" />
  <Item code="22" text="Delta" />
  <Item code="23" text="Density" />
  <Item code="24" text="Integral" />
  <Item code="25" text="Ave" />
  <Item code="26" text="Flow" />
  <Item code="27" text="Sunshine" />
  <Item code="28" text="Run" />
  <Item code="29" text="Frequency" />
  <Item code="30" text="Evaporation" />
  <Item code="31" text="Resistance" />
  <Item code="32" text="Voltage" />
  <Item code="33" text="Current" />
  <Item code="34" text="WBGT" />
  <Item code="35" text="CET" />
  <Item code="36" text="Conductance" />
  <Item code="37" text="LuminousIntensity" />
  <Item code="38" text="Intensity" />
  <Item code="39" text="DR" />
  <Item code="40" text="Unsatisfied" />
  <Item code="41" text="Day light factor" />
  <Item code="42" text="Index" />
  <Item code="43" text="Level" />
  <Item code="44" text="Discomfort" />
  <Item code="45" text="WindChillIndex" />
  <Item code="46" text="TempChilling" />
  <Item code="47" text="Not specified" />
  <Item code="48" text="Permittivity" />
  <Item code="49" text="Albedo" />
  <Item code="50" text="Volumic" />
</MeasureId>
<MeasureProperty>
  <Item code="0" text="Not defined" />
  <Item code="1" text="Environment" />
  <Item code="2" text="ColdJoint" />
  <Item code="3" text="ForcedVentilation" />
  <Item code="4" text="WetBulb" />
  <Item code="5" text="DewPoint" />
  <Item code="6" text="Mean Radiant" />
  <Item code="7" text="GlobeThermometer" />
  <Item code="8" text="Black Body" />

```

```
<Item code="9" text="Surface" />
<Item code="10" text="Phsiologic" />
<Item code="11" text="Wall1" />
<Item code="12" text="Wall2" />
<Item code="13" text="Relative" />
<Item code="14" text="Absolute" />
<Item code="15" text="Of moist air" />
<Item code="16" text="Of miscellany" />
<Item code="17" text="Partial Vapour" />
<Item code="18" text="PartialVapourSature" />
<Item code="19" text="Wind" />
<Item code="20" text="OfAir" />
<Item code="21" text="Atmospheric" />
<Item code="22" text="Differential" />
<Item code="23" text="Resultant" />
<Item code="24" text="Prevalent" />
<Item code="25" text="Global" />
<Item code="26" text="Net" />
<Item code="27" text="Direct" />
<Item code="28" text="Diffuse" />
<Item code="29" text="Radiant" />
<Item code="30" text="UVA" />
<Item code="31" text="UVB" />
<Item code="32" text="PAR" />
<Item code="33" text="VIR" />
<Item code="34" text="Soil" />
<Item code="35" text="Cl2" />
<Item code="36" text="CO" />
<Item code="37" text="CO2" />
<Item code="38" text="NH3" />
<Item code="39" text="NO" />
<Item code="40" text="NO2" />
<Item code="41" text="H2" />
<Item code="42" text="H2S" />
<Item code="43" text="HCl" />
<Item code="44" text="HCN" />
<Item code="45" text="O2" />
<Item code="46" text="O3" />
<Item code="47" text="SO2" />
<Item code="48" text="Rain" />
<Item code="49" text="Wetting" />
<Item code="50" text="FastA" />
<Item code="51" text="FastC" />
<Item code="52" text="SlowA" />
<Item code="53" text="SlowC" />
<Item code="54" text="Battery" />
<Item code="55" text="Planar" />
<Item code="56" text="Of delivery" />
<Item code="57" text="Of mass" />
<Item code="58" text="Specific" />
<Item code="59" text="Integral" />
<Item code="60" text="Interal" />
<Item code="61" text="External" />
<Item code="62" text="Change" />
<Item code="63" text="Draught" />
<Item code="64" text="NaturalVentilation" />
<Item code="65" text="Luminance" />
<Item code="66" text="Turbolence" />
<Item code="67" text="Manganine" />
<Item code="68" text="Wire" />
<Item code="69" text="Ankles" />
<Item code="70" text="Floor" />
<Item code="71" text="VerticalAirTemp" />
```

```

<Item code="72" text="FloodTemperature" />
<Item code="73" text="RadiantTempAsymm" />
<Item code="74" text="Partial" />
<Item code="75" text="Total" />
<Item code="76" text="Impulsive" />
<Item code="77" text="StandDev" />
<Item code="78" text="Heat" />
<Item code="79" text="UV" />
<Item code="80" text="UVExposition" />
<Item code="81" text="CH4" />
<Item code="82" text="VOC" />
<Item code="83" text="NMHC" />
<Item code="84" text="Gas" />
<Item code="85" text="Not specified" />
<Item code="86" text="Snow" />
<Item code="87" text="Vertical" />
<Item code="88" text="Internal" />
<Item code="89" text="Esternal" />
<Item code="90" text="Shortwave" />
<Item code="91" text="Longwave" />
<Item code="92" text="Reflected" />
<Item code="93" text="Incident" />
</MeasureProperty>
</MeasureAttributes>

```

The support of Babuc ABC instruments are located in one library file used by LSI LASTEM applications. This is the file:

```

C:\Documents and Settings\All Users\Application Data\LSI-
Lastem\Sltm2\Lib\[Culture]\BabucABCCodOpValues.xml

```

This is the contents of the file:

```

<?xml version="1.0" encoding="utf-8"?>
<appSettings>
  <CodOpDataTableManager
type="LSI_Lastem.Lib2.Sltm.InfoGap.CodOpDataTableManager,LSI.Lib2.Sltm">
  <property name="CodOpDataTables">
    <item name="CodOpDataTable">
      <property name="CodOp" value="1" />
      <property name="MeasureId" value="1" />
      <property name="MeasureProperty" value="1" />
    </item>
    <item name="CodOpDataTable">
      <property name="CodOp" value="2" />
      <property name="MeasureId" value="1" />
      <property name="MeasureProperty" value="4;3" />
    </item>
    <item name="CodOpDataTable">
      <property name="CodOp" value="3" />
      <property name="MeasureId" value="1" />
      <property name="MeasureProperty" value="1" />
    </item>
    <item name="CodOpDataTable">
      <property name="CodOp" value="4" />
      <property name="MeasureId" value="1" />
      <property name="MeasureProperty" value="4; 64" />
    </item>
    <item name="CodOpDataTable">
      <property name="CodOp" value="5" />
      <property name="MeasureId" value="1" />

```

```

    <property name="MeasureProperty" value="3" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="6" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="4; 3" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="7" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="1" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="8" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="4; 64" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="9" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="1" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="10" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="7" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="11" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="7" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="12" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="8" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="13" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="9" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="14" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="1" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="15" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="10" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="16" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="1" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="17" />
    <property name="MeasureId" value="1" />
    <property name="MeasureProperty" value="7" />
  </item>
  <item name="CodOpDataTable">

```



```

</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="31" />
  <property name="MeasureId" value="2" />
  <property name="MeasureProperty" value="13" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="32" />
  <property name="MeasureId" value="2" />
  <property name="MeasureProperty" value="13" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="33" />
  <property name="MeasureId" value="3" />
  <property name="MeasureProperty" value="21" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="34" />
  <property name="MeasureId" value="5" />
  <property name="MeasureProperty" value="19" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="35" />
  <property name="MeasureId" value="6" />
  <property name="MeasureProperty" value="19" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="36" />
  <property name="MeasureId" value="5" />
  <property name="MeasureProperty" value="19" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="37" />
  <property name="MeasureId" value="3" />
  <property name="MeasureProperty" value="22" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="38" />
  <property name="MeasureId" value="3" />
  <property name="MeasureProperty" value="22" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="39" />
  <property name="MeasureId" value="3" />
  <property name="MeasureProperty" value="22" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="40" />
  <property name="MeasureId" value="6" />
  <property name="MeasureProperty" value="19" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="41" />
  <property name="MeasureId" value="11" />
  <property name="MeasureProperty" value="0" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="42" />
  <property name="MeasureId" value="11" />
  <property name="MeasureProperty" value="0" />
</item>
<item name="CodOpDataTable">
  <property name="CodOp" value="43" />

```

```

    <property name="MeasureId" value="11" />
    <property name="MeasureProperty" value="0" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="44" />
    <property name="MeasureId" value="11" />
    <property name="MeasureProperty" value="0" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="45" />
    <property name="MeasureId" value="31" />
    <property name="MeasureProperty" value="34" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="46" />
    <property name="MeasureId" value="8" />
    <property name="MeasureProperty" value="0" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="47" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="25" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="48" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="25" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="49" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="26" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="50" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="27" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="51" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="27" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="52" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="28" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="53" />
    <property name="MeasureId" value="11" />
    <property name="MeasureProperty" value="0" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="54" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="33" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="55" />
    <property name="MeasureId" value="7" />
    <property name="MeasureProperty" value="30" />
  </item>

```



```

<item name="CodOpDataTable">
  <property name="CodOp" value="56" />
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  <item name="CodOpDataTable">
    <property name="CodOp" value="197" />
    <property name="MeasureId" value="44" />
    <property name="MeasureProperty" value="78" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="198" />
    <property name="MeasureId" value="47" />
    <property name="MeasureProperty" value="85" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="199" />
    <property name="MeasureId" value="47" />
    <property name="MeasureProperty" value="85" />
  </item>
  <item name="CodOpDataTable">
    <property name="CodOp" value="999" />
    <property name="MeasureId" value="0" />
    <property name="MeasureProperty" value="0" />
  </item>
</property>
<property name="CodOdDbFile" value="C:\Programmi\File comuni\lsi-
lastem\CodOp\LSICodOp.mdb" />
<property name="Version">
  <property name="NumVer" value="13" />
  <property name="Data" value="2008-05-26T00:00:00.0000000+02:00" />
</property>
<property name="CodOpInstrumentType" value="1" />
</CodOpDataTableManager>
</appSettings>

```

2.5.2. E-Log Tables

Core.ELogConfiguration: it includes the E-Log configurations connected to data stored in database.
Fields:

- *InstrumentConfigurationID*: configuration ID (table *Core.InstrumentSurvey*);
- *UpdateRate*: rate of configuration's update;
- *CISSConfiguration*: string that includes configuration's CISS (communication protocol) format version;
- *FirmwareVersion*: firmware version of the instrument.

2.6. Users

2.6.1. Users Database

Database includes three users with following characteristics:

LSI.Gidas.Administrator:

- role: `db_owner`

LSI.Gidas.Reader:

- roles: `db_datareader`
- CORE diagram permits: SELECT, EXECUTE

LSI.Gidas.Writer:

- roles: `db_datareader`, `db_datawriter`
- CORE diagram permits: SELECT, EXECUTE, INSERT, ADD, UPDATE

These three users are connected to two server level LOGIN:

- *LSI.Gidas.Reader* (password=`redaer_6`)
- *LSI.Gidas.Writer* (password=`retirw_6`)
- *LSI.Gidas.Administrator* (password=`sadig_admin`)

The user *LSI.Gidas.Administrator* (available from version 2.2.1) is used internally to update the database.

2.7. Stored procedures

2.7.1. Stored procedures that operates on data

Database includes several stored procedures for management of included data.

Stored procedures are called `[Schema].sp[Name]_[Action]` where:

- `[Schema]`: *Core* or *Viewer*;
- `[Name]`: name of the table where Stored Procedure operates;
- `[Action]`: action performed by Stored Procedure. These are possible actions:
 1. Add
 2. Remove
 3. Update
 4. Get, GetAll
 5. GetBy[*id*] where *id* is applied filter.
 6. Refresh

2.8. Views

- *Core.vInstrumentSurvey_GetRecordCount*: it counts real number of record of elaborated data associated to each *Survey* (the datum included in the table *InstrumentSurvey* could be one not up-to-date datum);
WARNING: in order to select the data use this view with terms *WHERE* on the *InstrumentConfigurationId* field
- *Core.vInstrumentSurvey_GetMoreRecentID*: it extracts the value *InstrumentConfigurationID* from latest configuration of each instrument;
- *vValueConfiguration_GetByMoreRecentInstrumentConfigurationID*: it extracts the configuration indexes of each instrument using its latest configuration;
- *Core.vInstrumentMeasures_GetAll*: it extracts the data referred to measures included in surveys unifying the information included in the tables *Core.InstrumentSurvey*, *Core.InstrumentMeasures*, *Core.ValueConfiguration* in one only table;
- *Core.vFlatLastInstData*: it extracts all the data of the table *Core.LastInstValue* (latest instantaneous data of current configuration of each instrument), unifying in one table three levels of data tables *Core.InstrumentSurvey*, *Core.ValueConfiguration*, *Core.LastInstValue*;
- *Core.vFlatCoreData*: it extracts the data of database, unifying in one table three levels of data tables *Core.InstrumentSurvey*, *Core.ValueConfiguration*, *Core.RawValue*.
WARNING: in order to select the data use this view with terms *WHERE*.

3. Database connection

This section describes how to connect to the Gidas database.

3.1. Example: connection strings

Use of the SQL Server authentication to read/write data:

```
Data Source=dbserver;
Initial Catalog=Gidas;
Persist Security Info=True;
User ID=LSI.Gidas.Writer;
Password=retirw_6
```

Use of the SQL Server authentication manage database:

```
Data Source=dbserver;
Initial Catalog=Gidas;
Persist Security Info=True;
User ID=LSI.Gidas.Administrator;
Password= sadig_admin
```

Use of the Windows authentication:

```
Data Source= dbserver;
Initial Catalog=Gidas;
Integrated Security=True;
Persist Security Info=True
```

4. Data storage

This section describes the storage of data measured by E-Log instrument through programs *CommNetEG* and *3DOM*.

4.1. Example: instrument E-Log type

Considering an instrument with serial number *05110008* and configured with two measures (*Temperature* and *relative humidity*) that have following processings *Min*, *Ave*, *Max*, *StDev*, *ValidDataPerc.*, you can download the elaborated data and the instantaneous data. At first data downloading the following records are added:

Core.InstrumentRegistry: one record added

FactorySerialNumber	InstrumentPrefix	UserSerialNumber	Description
05110008	ELog	05110008	Instrument description ...

Core.InstrumentSurvey: one record added

Instrument	FactorySerial	Configuration	LastStored	NumRecords	Instrument
------------	---------------	---------------	------------	------------	------------

LSI LASTEM GIDAS – Database description

ConfigurationID	Number	Date	ValueDate		Prefix
95	05110008	02/11/2006 10.20.34	07/05/2008 11.00.00	20568	ELog

Core.InstrumentMeasure: two records added (two measures)

Instrument ConfigurationID	Measure Index	MeasureName	Measure Precision	Measure Unit	Measure Property	MeasureId
95	1	Humidity	1	%	13	2

Core.InstrumentElaborationBase: 4 records added, (two processings bases for each measure, where one processing base is associated to instantaneous data and is identified by value *ElaborationBaseIndex=-1*);

Instrument ConfigurationID	Elaboration BaseIndex	Elaboration MeasureIndex	Elaboration Rate	Elaboration ItemNumber
95	-1	0	1	1
95	0	0	1800	5
95	-1	1	1	1
95	0	1	1800	5

Core.ValueConfiguration: 12 records added (each measure includes five elaborated values *Min, Ave, Max, StDev, ValidDataPerc* to which it's added the instantaneous value identified by value *ElaborationBaseIndex=ElaborationItemIndex=ElaborationType=-1*. Field *Position* for instantaneous data isn't important)

Value ConfigurationID	Instrument ConfigurationID	Measure Index	Elaboration BaseIndex	Elaboration ItemIndex	Elaboration Type	Position
3102	95	0	-1	-1	-1	0
3103	95	0	0	0	2	0
3104	95	0	0	1	3	1
3105	95	0	0	2	4	2
3106	95	0	0	3	5	3
3107	95	0	0	4	13	4
3108	95	1	-1	-1	-1	1
3109	95	1	0	0	2	5
3110	95	1	0	1	3	6
3111	95	1	0	2	4	7
3112	95	1	0	3	5	8
3113	95	1	0	4	13	9

Core.RawValue: if the instrument downloads n records, $(n*10 + 2)$ data records are added (in the table are inputted n records for each value of *ValueConfigurationID* inputted into above mentioned table, except values of *ValueConfigurationID* of the instantaneous data that are always one value for each measure, at every data download).

Core.LastInstValue: two records are added the first time, and during next updates they're updated (one instantaneous value for each measure; the values of *ValueConfigurationID* of the table correspond to the instantaneous data)

Value	ElaborationDate	ElaborationValue
-------	-----------------	------------------

ConfigurationID		
3102	07/05/2008 12.11.12	24,5
3108	07/05/2008 12.11.12	33,3

Core.ELogConfiguration: one record added (field CISSConfiguration includes the configuration of the instrument in CISS format of the communication protocol)

Instrument ConfigurationID	UpdateRate	CISSConfiguration	FirmwareVersion
95	1800	...	01.00.02

5. Data extraction

5.1. List of the measures and their processings associated to one survey

Considering one instrument (For example *FactorySerialNumber=05110008*), in order to obtain the list of all measures connected to one survey identified by *ConfigurationDate= '2006-11-02 10:20:34.000'* use the following query:

```
SELECT * FROM Core.vInstrumentMeasures_GetAll
WHERE FactorySerialNumber='05110008' AND ConfigurationDate='2006-11-02T10:20:34'
```

The result is one table like this one:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
05110008	2006-11-02 10:20:34.000	3102	Temperature	0	-1	1	'C	1	1
05110008	2006-11-02 10:20:34.000	3103	Temperature	0	0	1	'C	1	1
05110008	2006-11-02 10:20:34.000	3104	Temperature	0	1	1	'C	1	1
05110008	2006-11-02 10:20:34.000	3105	Temperature	0	2	1	'C	1	1
05110008	2006-11-02 10:20:34.000	3106	Temperature	0	3	1	'C	1	1
05110008	2006-11-02 10:20:34.000	3107	Temperature	0	4	1	'C	1	1
05110008	2006-11-02 10:20:34.000	3108	Humidity	1	-1	1	%	13	2
05110008	2006-11-02 10:20:34.000	3109	Humidity	1	0	1	%	13	2
05110008	2006-11-02 10:20:34.000	3110	Humidity	1	1	1	%	13	2
05110008	2006-11-02 10:20:34.000	3111	Humidity	1	2	1	%	13	2
05110008	2006-11-02 10:20:34.000	3112	Humidity	1	3	1	%	13	2
05110008	2006-11-02 10:20:34.000	3113	Humidity	1	4	1	%	13	2

Where:

- (1): FactorySerialNumber;
- (2): ConfigurationDate;
- (3): ValueConfigurationId;
- (4): MeasureName;
- (5): MeasureIndex;
- (6): ElaborationItemIndex;
- (7): MeasurePrecision;
- (8): MeasureUnit;
- (9): MeasureProperty;
- (10): MeasureId

5.2. Extraction of elaborated data

Considering one instrument (for example *FactorySerialNumber=05110008*), the selection of all data connected to latest configuration can be obtained through following query:

```
SELECT * FROM Core.vFlatCoreData WHERE InstrumentConfigurationID=
(
    SELECT maxCfgId FROM Core.vInstrumentSurvey_GetMoreRecentID WHERE
    FactorySerialNumber='05110008'
)
```

The result is one table like this one:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
95	05110008	2006-11-02 10:20:34.000	0	0	2	3105	2008-03-14 22:00:00.000	21,19743	100
95	05110008	2006-11-02 10:20:34.000	0	0	3	3106	2008-03-14 22:00:00.000	0,0379049	100
95	05110008	2006-11-02 10:20:34.000	1	0	0	3109	2008-03-14 22:00:00.000	35,93158	100
..

Where:

- (1): InstrumentConfigurationID;
- (2): FactorySerialNumber;
- (3): ConfigurationDate;
- (4): MeasureIndex;
- (5): ElaborationBaseIndex;
- (6): ElaborationItemIndex;
- (7): ValueConfigurationId;
- (8): ElaborationDate;
- (9): ElaborationValue;
- (10): ValidPercentage

In order to obtain the data of one specified configuration (identified by *InstrumentConfigurationID=95*) use the following query:

```
SELECT * FROM Core.vFlatCoreData WHERE InstrumentConfigurationID=95
```

In order to limit the data temporarily use following query:

```
SELECT * FROM Core.vFlatCoreData WHERE InstrumentConfigurationID=95
AND Elaborationdate
BETWEEN '2008-03-14T23:00:00' AND '2008-03-15T23:00:00'
```

5.3. Extraction of instantaneous data

In order to display latest instantaneous data of all instruments use following query

```
SELECT * FROM Core.vFlatLastInstData
```

The result is one table like this one:

(1)	(2)	(3)	(4)	(5)	(6)	(7)
79	05110000	2006-11-01 10:20:34.000	Temperature	2954	2008-04-30 10:00:00.000	12,5
80	05110000	2006-11-02 10:20:34.000	Temperature	2964	2008-04-30 10:00:00.000	12,6
95	05110008	2006-11-02 10:20:34.000	Temperature	3102	2008-05-07 12:11:12.423	24,5
95	05110008	2006-11-02 10:20:34.000	Humidity	3108	2008-05-07 12:11:12.423	33,3

Where:

- (1): InstrumentConfigurationID;
- (2): FactorySerialNumber;
- (3): ConfigurationDate;
- (4): MeasureName;
- (5): ValueConfigurationId;
- (6): Date;
- (7): Value;

6. Installation scripts

6.1. Database creation first step:

WARNING

Following instructions should be commented on SQL Server 2014 or superior

```
EXEC dbo.sp_dbcmptlevel @dbname=N'Gidas', @new_cmptlevel=90
GO
```

Change #SIZE# string with the desired database dimension (example 500MB)

Script

```
-----
--
-- Object: Create Database [Gidas]
-- Date: Script Date:
-- Remarks: Database files will be created in the same path of master db
-----
USE [master]
GO

-----
-- Create database object in the default storage path
-----
DECLARE @name char(5)
```

LSI LASTEM GIDAS – Database description

```
DECLARE @logname char(9)
DECLARE @path varchar(500)
DECLARE @dbFile varchar(500)
DECLARE @dbLogFile varchar(500)
SET @name='Gidas'
SET @logname='Gidas_log'
SELECT @path=[filename] FROM sysdatabases WHERE [name]='master'
SET @dbFile= REPLACE(@path, '\master.mdf', '\Gidas.mdf')
SET @dbLogFile= REPLACE(@path, '\master.mdf', '\Gidas_log.ldf')
DECLARE @queryTx nvarchar(3000)
SET @queryTx=N'CREATE DATABASE [Gidas] ON PRIMARY (NAME = N'+ QUOTENAME(@name, ''') +
            ', FILENAME = N' + QUOTENAME(@dbFile, ''') +
            ', SIZE = #SIZE#, MAXSIZE=UNLIMITED, FILEGROWTH = 10%) LOG ON ' +
            '(NAME = N' + QUOTENAME(@logname, ''') +
            ', FILENAME = N' + QUOTENAME(@dbLogFile, ''') +
            ', SIZE = 200MB , MAXSIZE = UNLIMITED , FILEGROWTH = 100MB) COLLATE

Latin1_General_CI_AS '
EXEC (@queryTx)
GO

-----
-- Alter database to add properties
-----
--EXEC dbo.sp_dbcmptlevel @dbname=N'Gidas', @new_cmptlevel=90
--GO
IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))
begin
EXEC [Gidas].[dbo].[sp_fulltext_database] @action = 'disable'
end
GO
ALTER DATABASE [Gidas] SET ANSI_NULL_DEFAULT OFF
GO
ALTER DATABASE [Gidas] SET ANSI_NULLS OFF
GO
ALTER DATABASE [Gidas] SET ANSI_PADDING OFF
GO
ALTER DATABASE [Gidas] SET ANSI_WARNINGS OFF
GO
ALTER DATABASE [Gidas] SET ARITHABORT OFF
GO
ALTER DATABASE [Gidas] SET AUTO_CLOSE ON
GO
ALTER DATABASE [Gidas] SET AUTO_CREATE_STATISTICS ON
GO
ALTER DATABASE [Gidas] SET AUTO_SHRINK OFF
GO
ALTER DATABASE [Gidas] SET AUTO_UPDATE_STATISTICS ON
GO
ALTER DATABASE [Gidas] SET CURSOR_CLOSE_ON_COMMIT OFF
GO
ALTER DATABASE [Gidas] SET CURSOR_DEFAULT GLOBAL
GO
ALTER DATABASE [Gidas] SET CONCAT_NULL_YIELDS_NULL OFF
GO
ALTER DATABASE [Gidas] SET NUMERIC_ROUNDABORT OFF
GO
ALTER DATABASE [Gidas] SET QUOTED_IDENTIFIER OFF
GO
ALTER DATABASE [Gidas] SET RECURSIVE_TRIGGERS OFF
GO
ALTER DATABASE [Gidas] SET  DISABLE_BROKER
GO
ALTER DATABASE [Gidas] SET AUTO_UPDATE_STATISTICS_ASYNC OFF
GO
ALTER DATABASE [Gidas] SET DATE_CORRELATION_OPTIMIZATION OFF
GO
ALTER DATABASE [Gidas] SET ALLOW_SNAPSHOT_ISOLATION OFF
GO
ALTER DATABASE [Gidas] SET PARAMETERIZATION SIMPLE
GO
ALTER DATABASE [Gidas] SET  READ_WRITE
GO
ALTER DATABASE [Gidas] SET RECOVERY SIMPLE
GO
ALTER DATABASE [Gidas] SET  MULTI_USER
GO
ALTER DATABASE [Gidas] SET PAGE_VERIFY CHECKSUM
GO
```

```

-----
-- Create database logins
-----
IF NOT EXISTS (SELECT * FROM syslogins WHERE [name]='LSI.Gidas.Reader')
BEGIN
    CREATE LOGIN [LSI.Gidas.Reader] WITH PASSWORD=N'redaer_6', DEFAULT_DATABASE=[Gidas],
    DEFAULT_LANGUAGE=[us_english], CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
END
GO
IF NOT EXISTS (SELECT * FROM syslogins WHERE [name]='LSI.Gidas.Writer')
BEGIN
    CREATE LOGIN [LSI.Gidas.Writer] WITH PASSWORD=N'retirw_6', DEFAULT_DATABASE=[Gidas],
    DEFAULT_LANGUAGE=[us_english], CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
END
GO
IF NOT EXISTS (SELECT * FROM syslogins WHERE [name]='LSI.Gidas.Administrator')
BEGIN
    CREATE LOGIN [LSI.Gidas.Administrator] WITH PASSWORD=N'sadig_admin',
    DEFAULT_DATABASE=[Gidas], DEFAULT_LANGUAGE=[us_english], CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
END
GO

```

6.2. Database creation second step:

```

-----
-- Object: Add objects to database [Gidas]
-- Date: Script Date: 15/11/2012
-- Version: 2.10.0
-- aggiunge la gestione della descrizione in UserConfigurationAttributes
-----
USE [Gidas]

-----
-- Create Users and Schema
-----
GO
IF NOT EXISTS (SELECT * FROM sys.schemas WHERE name = N'Viewer')
EXEC sys.sp_executesql N'CREATE SCHEMA [Viewer] AUTHORIZATION [db_owner]'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'Description' , N'SCHEMA',N'Viewer', NULL,NULL,
NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'Description', @value=N'Schema used by GidasViewer application' ,
@level0type=N'SCHEMA',@level0name=N'Viewer'
GO
IF NOT EXISTS (SELECT * FROM sys.schemas WHERE name = N'Core')
EXEC sys.sp_executesql N'CREATE SCHEMA [Core] AUTHORIZATION [db_owner]'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'Description' , N'SCHEMA',N'Core', NULL,NULL, NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'Description', @value=N'Schema that contains data' ,
@level0type=N'SCHEMA',@level0name=N'Core'
GO
IF NOT EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Writer')
CREATE USER [LSI.Gidas.Writer] FOR LOGIN [LSI.Gidas.Writer] WITH DEFAULT_SCHEMA=[Core]
GO
IF NOT EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Reader')
CREATE USER [LSI.Gidas.Reader] FOR LOGIN [LSI.Gidas.Reader] WITH DEFAULT_SCHEMA=[Core]
GO
IF NOT EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Administrator')
CREATE USER [LSI.Gidas.Administrator] FOR LOGIN [LSI.Gidas.Administrator] WITH DEFAULT_SCHEMA=[Core]
GO
GRANT EXECUTE, INSERT, DELETE, SELECT, UPDATE ON SCHEMA :: Core TO [LSI.Gidas.Writer]
GO
GRANT EXECUTE, INSERT, DELETE, SELECT, UPDATE ON SCHEMA :: Viewer TO [LSI.Gidas.Writer]
GO
GRANT SELECT ON SCHEMA :: Core TO [LSI.Gidas.Reader]
GO
GRANT SELECT ON SCHEMA :: Viewer TO [LSI.Gidas.Reader]
GO
EXEC sp_addrolemember N'db_owner', N'LSI.Gidas.Administrator'
GO
-----
-- Create Tables
-----
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[GidasVersion]') AND type in (N'U'))
BEGIN
CREATE TABLE [Core].[GidasVersion] (

```

```

        [Version] [varchar](15) NOT NULL,
        [ReleaseDate] [datetime] NOT NULL
    ) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[InstrumentType]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[InstrumentType](
        [Prefix] [varchar](15) NOT NULL,
        [Name] [varchar](100) NOT NULL,
    CONSTRAINT [PK_InstrumentType_1] PRIMARY KEY CLUSTERED
    (
        [Prefix] ASC
    )WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[ELogConfiguration]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[ELogConfiguration](
        [InstrumentConfigurationId] [int] NOT NULL,
        [UpdateRate] [int] NOT NULL,
        [CISSConfiguration] [ntext] NOT NULL,
        [FirmwareVersion] [char](8) NOT NULL CONSTRAINT [DF_ELogConfiguration_FirmwareVersion] DEFAULT
('00.00.00'),
    CONSTRAINT [PK_ELogConfiguration] PRIMARY KEY CLUSTERED
    (
        [InstrumentConfigurationId] ASC
    )WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
END
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_Description' , N'SHEMA',N'Core',
N'TABLE',N'ELogConfiguration', N'COLUMN',N'UpdateRate'))
EXEC sys.sp_addextendedproperty @name=N'MS_Description', @value=N'Rate di elaborazione in secondi' ,
@level0type=N'SHEMA',@level0name=N'Core', @level1type=N'TABLE',@level1name=N'ELogConfiguration',
@level2type=N'COLUMN',@level2name=N'UpdateRate'
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[RegistryLog]') AND type in (N'U'))
BEGIN
CREATE TABLE [Core].[RegistryLog](
        [logId] [bigint] IDENTITY(1,1) NOT NULL,
        [logKey] [nvarchar](50) NOT NULL,
        [logKeyId] [nvarchar](50) NOT NULL,
        [logKeyNumber] [int] NOT NULL,
    CONSTRAINT [PK_RegistryLog] PRIMARY KEY CLUSTERED
    (
        [logId] ASC
    )WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[CustomView]') AND type in (N'U'))
BEGIN
CREATE TABLE [Core].[CustomView](
        [CustomViewId] [int] IDENTITY(1,1) NOT NULL,
        [ViewName] [nvarchar](50) NOT NULL,
    CONSTRAINT [PK_CustomView] PRIMARY KEY CLUSTERED
    (
        [CustomViewId] ASC
    )WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON

```

LSI LASTEM GIDAS – Database description

```
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[CustomFilter]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Viewer].[CustomFilter](
    [CustomFilterId] [int] IDENTITY(1,1) NOT NULL,
    [ParentType] [int] NOT NULL,
    [ParentId] [int] NOT NULL,
    [FilterConfiguration] [ntext] NOT NULL,
    CONSTRAINT [PK_CustomFilter] PRIMARY KEY CLUSTERED
(
    [CustomFilterId] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
END
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_Description' , N'SHEMA',N'Viewer',
N'TABLE',N'CustomFilter', N'COLUMN',N'ParentType'))
EXEC sys.sp_addextendedproperty @name=N'MS_Description', @value=N'0-> Survey; 1 -> CustomView' ,
@level0type=N'SHEMA',@level0name=N'Viewer', @level1type=N'TABLE',@level1name=N'CustomFilter',
@level2type=N'COLUMN',@level2name=N'ParentType'
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[ElabTypeList]') AND type in (N'U'))
BEGIN
CREATE TABLE [Core].[ElabTypeList](
    [IdElabType] [int] NOT NULL,
    [ElabTypeString] [nvarchar](15) NOT NULL,
    [ElabTypeToDo] [varchar](15) NULL,
    CONSTRAINT [PK_ElabTypeList] PRIMARY KEY CLUSTERED
(
    [IdElabType] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[InstrumentSurvey]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[InstrumentSurvey](
    [InstrumentConfigurationID] [int] IDENTITY(1,1) NOT NULL,
    [FactorySerialNumber] [varchar](20) NOT NULL,
    [ConfigurationDate] [datetime] NOT NULL,
    [LastStoredValueDate] [datetime] NOT NULL,
    [NumRecords] [bigint] NOT NULL CONSTRAINT [DF_InstrumentConfiguration_RecordNumber] DEFAULT ((0)),
    [InstrumentPrefix] [varchar](15) NOT NULL,
    CONSTRAINT [PK_InstrumentConfiguration] PRIMARY KEY CLUSTERED
(
    [FactorySerialNumber] ASC,
    [ConfigurationDate] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

IF NOT EXISTS (SELECT * FROM sys.indexes WHERE object_id = OBJECT_ID(N'[Core].[InstrumentSurvey]') AND name =
N'UN_InstrumentConfiguration_InstrumentConfigurationID')
CREATE UNIQUE NONCLUSTERED INDEX [UN_InstrumentConfiguration_InstrumentConfigurationID] ON
[Core].[InstrumentSurvey]
(
    [InstrumentConfigurationID] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_Description' , N'SHEMA',N'Core',
N'TABLE',N'InstrumentSurvey', N'COLUMN',N'LastStoredValueDate'))
EXEC sys.sp_addextendedproperty @name=N'MS_Description', @value=N'inizialmente si pone uguale a ConfigurationDate'
, @level0type=N'SHEMA',@level0name=N'Core', @level1type=N'TABLE',@level1name=N'InstrumentSurvey',
@level2type=N'COLUMN',@level2name=N'LastStoredValueDate'
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[CustomViewMeasure]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[CustomViewMeasure](
    [CustomViewId] [int] NOT NULL,
    [InstrumentConfigurationId] [int] NOT NULL,
    [MeasureIndex] [int] NOT NULL,
```


LSI LASTEM GIDAS – Database description

```
CONSTRAINT [PK_CustomViewMeasure] PRIMARY KEY CLUSTERED
(
    [CustomViewId] ASC,
    [InstrumentConfigurationId] ASC,
    [MeasureIndex] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[InstrumentRegistry]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[InstrumentRegistry](
    [FactorySerialNumber] [varchar](20) NOT NULL,
    [InstrumentPrefix] [varchar](15) NOT NULL,
    [UserSerialNumber] [varchar](50) NOT NULL CONSTRAINT [DF_SltnInstrument_UserSerialNumber] DEFAULT
('=FactorySerialNumber'),
    [Description] [varchar](200) NOT NULL CONSTRAINT [DF_SltnInstrument_Description] DEFAULT
('=FactorySerialNumber'),
    DbDescription [varchar] (200) NULL,
    CONSTRAINT [PK_InstrumentRegistry] PRIMARY KEY CLUSTERED
(
    [FactorySerialNumber] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

IF NOT EXISTS (SELECT * FROM sys.indexes WHERE object_id = OBJECT_ID(N'[Core].[InstrumentRegistry]') AND name =
N'IX_InstrumentRegistry')
CREATE UNIQUE NONCLUSTERED INDEX [IX_InstrumentRegistry] ON [Core].[InstrumentRegistry]
(
    [FactorySerialNumber] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[InstrumentMeasure]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[InstrumentMeasure](
    [InstrumentConfigurationId] [int] NOT NULL,
    [MeasureIndex] [int] NOT NULL,
    [MeasureName] [nvarchar](50) NOT NULL CONSTRAINT [DF_InstrumentMeasure_MeasureName] DEFAULT (N'-'),
    [MeasurePrecision] [int] NOT NULL CONSTRAINT [DF_InstrumentMeasure_MeasurePrecision] DEFAULT ((2)),
    [MeasureUnit] [nvarchar](15) NOT NULL CONSTRAINT [DF_InstrumentMeasure_UnitMeasure] DEFAULT (N'-'),
    [MeasureProperty] [nvarchar](20) NOT NULL CONSTRAINT [DF_InstrumentMeasure_MeasureProperty] DEFAULT
((0)),
    [MeasureId] [int] NOT NULL CONSTRAINT [DF_InstrumentMeasure_MeasureType] DEFAULT ((0)),
    CONSTRAINT [PK_InstrumentMeasure_1] PRIMARY KEY CLUSTERED
(
    [InstrumentConfigurationId] ASC,
    [MeasureIndex] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[InstrumentElaborationBase]') AND
type in (N'U'))
BEGIN
CREATE TABLE [Core].[InstrumentElaborationBase](
    [InstrumentConfigurationId] [int] NOT NULL,
    [ElaborationBaseIndex] [int] NOT NULL,
    [ElaborationMeasureIndex] [int] NOT NULL,
    [ElaborationRate] [int] NOT NULL,
    [ElaborationItemNumber] [int] NOT NULL,
    CONSTRAINT [PK_InstrumentElaborationBase] PRIMARY KEY CLUSTERED
(
    [InstrumentConfigurationId] ASC,
    [ElaborationMeasureIndex] ASC,
    [ElaborationBaseIndex] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_Description' , N'SHEMA',N'Core',
N'TABLE',N'InstrumentElaborationBase', N'COLUMN',N'ElaborationRate'))
```

LSI LASTEM GIDAS – Database description

```
EXEC sys.sp_addextendedproperty @name=N'MS_Description', @value=N'Rate di elaborazione in secondi' ,
@level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'TABLE',@level1name=N'InstrumentElaborationBase',
@level2type=N'COLUMN',@level2name=N'ElaborationRate'
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[ValueConfiguration]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[ValueConfiguration](
[ValueConfigurationID] [int] IDENTITY(1,1) NOT NULL,
[InstrumentConfigurationID] [int] NOT NULL,
[MeasureIndex] [int] NOT NULL,
[ElaborationBaseIndex] [int] NOT NULL,
[ElaborationItemIndex] [int] NOT NULL,
[ElaborationType] [int] NOT NULL CONSTRAINT [DF_ValueConfiguration_ElabType] DEFAULT ((0)),
[Position] [int] NOT NULL CONSTRAINT [DF_ValueConfiguration_Position] DEFAULT ((0)),
CONSTRAINT [PK_ValueConfiguration] PRIMARY KEY CLUSTERED
(
[ValueConfigurationID] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[LastInstValue]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Core].[LastInstValue](
[ValueConfigurationID] [int] NOT NULL,
[InstDate] [datetime] NOT NULL,
[InstValue] [real] NOT NULL,
CONSTRAINT [PK_LastInstValue] PRIMARY KEY CLUSTERED
(
[ValueConfigurationID] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[RawValue]') AND type in (N'U'))
BEGIN
CREATE TABLE [Core].[RawValue](
[ValueConfigurationID] [int] NOT NULL,
[ElaborationDate] [datetime] NOT NULL,
[ElaborationValue] [real] NOT NULL,
[ValidPercentage] [tinyint] NOT NULL CONSTRAINT [DF_RawValue_ValidPercentage] DEFAULT ((100)),
CONSTRAINT [PK_RawValue] PRIMARY KEY CLUSTERED
(
[ElaborationDate] ASC,
[ValueConfigurationID] ASC
)WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
END
GO

IF NOT EXISTS (SELECT * FROM sys.indexes WHERE object_id = OBJECT_ID(N'[Core].[RawValue]') AND name =
N'NCINDEX_RawValue_ElaborationDate')
CREATE NONCLUSTERED INDEX [NCINDEX_RawValue_ElaborationDate] ON [Core].[RawValue]
(
[ElaborationDate] ASC
)
INCLUDE ( [ValueConfigurationID],
[ElaborationValue]) WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
GO

--Aggiunto con la versione 2.6 solo per i nuovi database
IF NOT EXISTS (SELECT * FROM sys.indexes WHERE object_id = OBJECT_ID(N'[Core].[RawValue]') AND name =
N'NCINDEX_RawValue_ElaborationDateDESC')
CREATE NONCLUSTERED INDEX [NCINDEX_RawValue_ElaborationDateDESC] ON [Core].[RawValue]
(
[ElaborationDate] DESC
)
INCLUDE ( [ValueConfigurationID],
[ElaborationValue]) WITH (PAD_INDEX = OFF, IGNORE_DUP_KEY = OFF) ON [PRIMARY]
GO

IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_Description' , N'SCHEMA',N'Core',
N'TABLE',N'RawValue', N'COLUMN',N'ValidPercentage'))
```

LSI LASTEM GIDAS – Database description

```
EXEC sys.sp_addextendedproperty @name=N'MS_Description', @value=N'il tipo va da 0 a 255' ,
@level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'TABLE',@level1name=N'RawValue',
@level2type=N'COLUMN',@level2name=N'ValidPercentage'
GO

-----
-- Create Views and Stored Procedures
-----

IF NOT EXISTS (SELECT * FROM sys.views WHERE object_id = OBJECT_ID(N'[Core].[vInstrumentSurvey_GetRecordCount]'))
EXEC dbo.sp_executesql @statement = N'CREATE VIEW [Core].[vInstrumentSurvey_GetRecordCount]
AS
SELECT
Core.ValueConfiguration.InstrumentConfigurationID          COUNT(Core.RawValue.ValueConfigurationID)          AS          RecordCount,
FROM
Core.ValueConfiguration INNER JOIN
Core.RawValue
ON
Core.ValueConfiguration.ValueConfigurationID =
Core.RawValue.ValueConfigurationID
WHERE
(Core.RawValue.ValueConfigurationID IN
(SELECT
ValueConfigurationID
FROM
Core.ValueConfiguration AS ValueConfiguration_1
WHERE
(ElaborationBaseIndex >= 0)))
GROUP BY Core.ValueConfiguration.InstrumentConfigurationID
'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPanel' , N'SCHEMA',N'Core',
N'VIEW',N'vInstrumentSurvey_GetRecordCount', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPanel', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]
Begin DesignProperties =
Begin PaneConfigurations =
Begin PaneConfiguration = 0
NumPanes = 4
Configuration = "(H (1[21] 4[21] 2[23] 3) )"
End
Begin PaneConfiguration = 1
NumPanes = 3
Configuration = "(H (1 [50] 4 [25] 3))"
End
Begin PaneConfiguration = 2
NumPanes = 3
Configuration = "(H (1 [50] 2 [25] 3))"
End
Begin PaneConfiguration = 3
NumPanes = 3
Configuration = "(H (4 [30] 2 [40] 3))"
End
Begin PaneConfiguration = 4
NumPanes = 2
Configuration = "(H (1 [56] 3))"
End
Begin PaneConfiguration = 5
NumPanes = 2
Configuration = "(H (2 [66] 3))"
End
Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"
End
Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"
End
Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2) )"
End
Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2) )"
End
Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1) )"
End
Begin PaneConfiguration = 13
NumPanes = 1
Configuration = "(V (4))"
End
Begin PaneConfiguration = 14
NumPanes = 1
Configuration = "(V (2))"
End
ActivePaneConfig = 0
```

```

End
Begin DiagramPane =
  Begin Origin =
    Top = 0
    Left = 0
  End
  Begin Tables =
    Begin Table = "RawValue (Core)"
      Begin Extent =
        Top = 6
        Left = 286
        Bottom = 121
        Right = 469
      End
      DisplayFlags = 280
      TopColumn = 0
    End
    Begin Table = "ValueConfiguration (Core)"
      Begin Extent =
        Top = 0
        Left = 0
        Bottom = 115
        Right = 210
      End
      DisplayFlags = 280
      TopColumn = 0
    End
  End
End
Begin SQLPane =
End
Begin DataPane =
  Begin ParameterDefaults = ""
  End
  Begin ColumnWidths = 9
    Width = 284
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
  End
End
Begin CriteriaPane =
  Begin ColumnWidths = 12
    Column = 2970
    Alias = 900
    Table = 2370
    Output = 720
    Append = 1400
    NewValue = 1170
    SortType = 1350
    SortOrder = 1410
    GroupBy = 1350
    Filter = 1350
    Or = 1350
    Or = 1350
    Or = 1350
  End
End
End
', @level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vInstrumentSurvey_GetRecordCount'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPaneCount' , N'SCHEMA',N'Core',
N'VIEW',N'vInstrumentSurvey_GetRecordCount', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vInstrumentSurvey_GetRecordCount'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spInstrumentSurvey_UpdateNumrecords]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 7/5/2008
-- Description: Updates instrument survey record numbers
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_UpdateNumrecords]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from

```

```

-- interfering with SELECT statements.
SET NOCOUNT ON;
DECLARE @RecordCount int

SELECT @RecordCount= count(Core.RawValue.ValueConfigurationID) FROM Core.RawValue
WHERE Core.RawValue.ValueConfigurationID IN
(
    select ValueConfigurationID
    FROM Core.ValueConfiguration
    WHERE ElaborationBaseIndex >=0 AND InstrumentConfigurationID=@InstrumentConfigurationID
)

UPDATE Core.InstrumentSurvey SET NumRecords=@RecordCount WHERE
InstrumentConfigurationID=@InstrumentConfigurationID
Return @RecordCount
END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spRawValue_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 27/10/2006
-- Description: Add a single row of data, checking primarykey violation
-- Return: 1=added, -1=error, 0=already in the table
-- =====
CREATE PROCEDURE [Core].[spRawValue_Add]
-- Add the parameters for the stored procedure here
@ValueConfigurationID int,
@ElaborationDate datetime,
@ElaborationValue real,
@ValidPercentage tinyint,
@RowCount int output
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
BEGIN TRY
INSERT INTO Core.RawValue
(
    ValueConfigurationID,
    ElaborationDate,
    ElaborationValue,
    ValidPercentage
)
VALUES
(
    @ValueConfigurationID,
    @ElaborationDate,
    @ElaborationValue,
    @ValidPercentage
)
SET @RowCount='1'

END TRY
BEGIN CATCH
IF (ERROR_NUMBER() = 2627) BEGIN
SET @RowCount='0'
END
ELSE BEGIN
SET @RowCount='-1'
END
END CATCH

END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.views WHERE object_id = OBJECT_ID(N'[Core].[vFlatCoreData]'))
EXEC dbo.sp_executesql @statement = N'CREATE VIEW [Core].[vFlatCoreData]
AS
SELECT Core.InstrumentSurvey.InstrumentConfigurationID, Core.InstrumentSurvey.FactorySerialNumber,
Core.InstrumentSurvey.ConfigurationDate,
Core.ValueConfiguration.MeasureIndex, Core.ValueConfiguration.ElaborationBaseIndex,
Core.ValueConfiguration.ElaborationItemIndex,

```

LSI LASTEM GIDAS – Database description

```
Core.ValueConfiguration.ValueConfigurationID, Core.RawValue.ElaborationDate,
Core.RawValue.ElaborationValue,
Core.RawValue.ValidPercentage
FROM Core.ValueConfiguration INNER JOIN
Core.RawValue ON Core.ValueConfiguration.ValueConfigurationID =
Core.RawValue.ValueConfigurationID INNER JOIN
Core.InstrumentSurvey ON Core.ValueConfiguration.InstrumentConfigurationID =
Core.InstrumentSurvey.InstrumentConfigurationID
,
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPane1' , N'SHEMA',N'Core',
N'VIEW',N'vFlatCoreData', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPane1', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]
Begin DesignProperties =
Begin PaneConfigurations =
Begin PaneConfiguration = 0
NumPanes = 4
Configuration = "(H (1[38] 4[17] 2[16] 3) )"
End
Begin PaneConfiguration = 1
NumPanes = 3
Configuration = "(H (1 [50] 4 [25] 3))"
End
Begin PaneConfiguration = 2
NumPanes = 3
Configuration = "(H (1 [50] 2 [25] 3))"
End
Begin PaneConfiguration = 3
NumPanes = 3
Configuration = "(H (4 [30] 2 [40] 3))"
End
Begin PaneConfiguration = 4
NumPanes = 2
Configuration = "(H (1 [56] 3))"
End
Begin PaneConfiguration = 5
NumPanes = 2
Configuration = "(H (2 [66] 3))"
End
Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"
End
Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"
End
Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2) )"
End
Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2) )"
End
Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1) )"
End
Begin PaneConfiguration = 13
NumPanes = 1
Configuration = "(V (4))"
End
Begin PaneConfiguration = 14
NumPanes = 1
Configuration = "(V (2))"
End
ActivePaneConfig = 0
End
Begin DiagramPane =
Begin Origin =
Top = 0
Left = 0
End
Begin Tables =
Begin Table = "ValueConfiguration (Core)"
Begin Extent =
Top = 18
Left = 248
Bottom = 133
Right = 458
End
```

```

        DisplayFlags = 280
        TopColumn = 0
    End
    Begin Table = "RawValue (Core)"
        Begin Extent =
            Top = 18
            Left = 630
            Bottom = 133
            Right = 813
        End
        DisplayFlags = 280
        TopColumn = 0
    End
    Begin Table = "InstrumentSurvey (Core)"
        Begin Extent =
            Top = 6
            Left = 38
            Bottom = 121
            Right = 248
        End
        DisplayFlags = 280
        TopColumn = 0
    End
End
End
Begin SQLPane =
End
Begin DataPane =
    Begin ParameterDefaults = ""
    End
    Begin ColumnWidths = 9
        Width = 284
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
    End
End
Begin CriteriaPane =
    Begin ColumnWidths = 11
        Column = 1440
        Alias = 900
        Table = 1170
        Output = 720
        Append = 1400
        NewValue = 1170
        SortType = 1350
        SortOrder = 1410
        GroupBy = 1350
        Filter = 1350
        Or = 1350
        Or = 1350
        Or = 1350
    End
End
End
', @level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vFlatCoreData'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty (N'MS_DiagramPaneCount' , N'SCHEMA',N'Core',
N'VIEW',N'vFlatCoreData', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vFlatCoreData'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentRegistry_Remove]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 17/4/2008
-- Description: Remove a selected InstrumentRegistry
-- =====
CREATE PROCEDURE [Core].[spInstrumentRegistry_Remove]
-- Add the parameters for the stored procedure here
@FactorySerialNumber varchar(20)
AS
BEGIN
--impostare per avere il valore di ritorno
--SET NOCOUNT ON;

-- Insert statements for procedure here
DELETE FROM Core.InstrumentRegistry WHERE FactorySerialNumber=@FactorySerialNumber
END

```

```

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentRegistry_Add]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description: Insert a new Instrument if not already present
-- =====
CREATE PROCEDURE [Core].[spInstrumentRegistry_Add]
-- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @InstrumentPrefix varchar(15),
    @UserSerialNumber varchar(50),
    @Description varchar(200)
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Prima dell'inserimento verifica se esiste già il record
SELECT FactorySerialNumber FROM Core.InstrumentRegistry WHERE FactorySerialNumber=@FactorySerialNumber

-- Insert statements for procedure here
IF (@@ROWCOUNT <= 0)
BEGIN
INSERT INTO Core.InstrumentRegistry
(
FactorySerialNumber,
InstrumentPrefix,
UserSerialNumber,
Description
)
VALUES
(
@FactorySerialNumber,
@InstrumentPrefix,
@UserSerialNumber,
@Description
)
END
END
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentRegistry_GetAll]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description: Load all instruments
-- =====
CREATE PROCEDURE [Core].[spInstrumentRegistry_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

SELECT Core.InstrumentRegistry.InstrumentPrefix, Core.InstrumentRegistry.FactorySerialNumber,
Core.InstrumentRegistry.UserSerialNumber, Core.InstrumentRegistry.[Description],
Core.InstrumentRegistry.DbDescription,
Core.InstrumentType.Name AS InstrumentName
FROM Core.InstrumentRegistry INNER JOIN
Core.InstrumentType ON Core.InstrumentRegistry.InstrumentPrefix = Core.InstrumentType.Prefix
END'
END
GO

```


LSI LASTEM GIDAS – Database description

```
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentRegistry_GetByPrefix]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    26/10/2006
-- Description:    Load all instruments of a defined type
-- =====
CREATE PROCEDURE [Core].[spInstrumentRegistry_GetByPrefix]
    -- Add the parameters for the stored procedure here
    @prefix varchar(15)
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert
    SELECT Core.InstrumentRegistry.InstrumentPrefix, Core.InstrumentRegistry.FactorySerialNumber,
        Core.InstrumentRegistry.UserSerialNumber, Core.InstrumentRegistry.[Description],
        Core.InstrumentRegistry.DbDescription,
        Core.InstrumentType.Name AS InstrumentName
    FROM Core.InstrumentRegistry INNER JOIN
        Core.InstrumentType ON Core.InstrumentRegistry.InstrumentPrefix = Core.InstrumentType.Prefix
    WHERE Core.InstrumentRegistry.InstrumentPrefix = @prefix
END'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentRegistry_GetByFSN]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    26/10/2006
-- Description:    Load an instrument
-- =====
CREATE PROCEDURE [Core].[spInstrumentRegistry_GetByFSN]
    -- Add the parameters for the stored procedure here
    @fMatr varchar(20)
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT Core.InstrumentRegistry.InstrumentPrefix, Core.InstrumentRegistry.FactorySerialNumber,
        Core.InstrumentRegistry.UserSerialNumber, Core.InstrumentRegistry.[Description],
        Core.InstrumentRegistry.DbDescription,
        Core.InstrumentType.Name AS InstrumentName
    FROM Core.InstrumentRegistry INNER JOIN
        Core.InstrumentType ON Core.InstrumentRegistry.InstrumentPrefix = Core.InstrumentType.Prefix
    WHERE FactorySerialNumber=@fMatr
END
'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentMeasure_GetByConfigurationID]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    4/02/2008
-- Description:    Load measures of an InstrumentSurvey
-- =====
CREATE PROCEDURE [Core].[spInstrumentMeasure_GetByConfigurationID]
    -- Add the parameters for the stored procedure here
    @InstrumentConfigurationId int
AS
```

```

BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT InstrumentConfigurationId, MeasureIndex, MeasureName, MeasurePrecision, MeasureUnit,
           MeasureProperty, MeasureId
    FROM Core.InstrumentMeasure
    WHERE InstrumentConfigurationId=@InstrumentConfigurationId
END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentMeasure_Add]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:           Stefano Giarola
-- Create date:      26/10/2006
-- Description:      Add an InstrumentMeasure
-- =====
CREATE PROCEDURE [Core].[spInstrumentMeasure_Add]
    -- Add the parameters for the stored procedure here
    @InstrumentConfigurationId int,
    @MeasureIndex int,
    @MeasureName nvarchar(50),
    @MeasurePrecision int,
    @MeasureUnit nvarchar(15),
    @MeasureProperty nvarchar(20),
    @MeasureId int,
    @NewId int output
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO Core.InstrumentMeasure
    (
        InstrumentConfigurationId,
        MeasureName,
        MeasurePrecision,
        MeasureUnit,
        MeasureProperty,
        MeasureId,
        MeasureIndex
    )
    VALUES
    (
        @InstrumentConfigurationId,
        @MeasureName,
        @MeasurePrecision,
        @MeasureUnit,
        @MeasureProperty,
        @MeasureId,
        @MeasureIndex
    )

    --recupera l'id
    SET @NewId= SCOPE_IDENTITY()
END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.views WHERE object_id = OBJECT_ID(N'[Core].[vFlatLastInstData]'))
EXEC dbo.sp_executesql @statement = N'
CREATE VIEW [Core].[vFlatLastInstData]
AS
SELECT
Core.InstrumentSurvey.InstrumentConfigurationID,                               Core.InstrumentSurvey.FactorySerialNumber,
Core.InstrumentSurvey.ConfigurationDate,
Core.InstrumentMeasure.MeasureName,
Core.ValueConfiguration.ValueConfigurationID,
Core.LastInstValue.InstDate, Core.LastInstValue.InstValue
FROM

```

LSI LASTEM GIDAS – Database description

```

Core.ValueConfiguration
INNER JOIN Core.LastInstValue ON Core.ValueConfiguration.ValueConfigurationID =
Core.LastInstValue.ValueConfigurationID
INNER JOIN Core.InstrumentSurvey ON Core.ValueConfiguration.InstrumentConfigurationID =
Core.InstrumentSurvey.InstrumentConfigurationID
INNER JOIN Core.InstrumentMeasure ON Core.ValueConfiguration.InstrumentConfigurationID =
Core.InstrumentMeasure.InstrumentConfigurationID
AND
Core.ValueConfiguration.MeasureIndex = Core.InstrumentMeasure.MeasureIndex
,
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.views WHERE object_id = OBJECT_ID(N'[Core].[vInstrumentMeasures_GetAll]'))
EXEC dbo.sp_executesql @statement = N'CREATE VIEW [Core].[vInstrumentMeasures_GetAll]
AS
SELECT Core.InstrumentSurvey.FactorySerialNumber, Core.InstrumentSurvey.ConfigurationDate,
Core.ValueConfiguration.ValueConfigurationID,
Core.InstrumentMeasure.MeasureName, Core.InstrumentMeasure.MeasureIndex,
Core.ValueConfiguration.ElaborationItemIndex,
Core.InstrumentMeasure.MeasurePrecision, Core.InstrumentMeasure.MeasureUnit,
Core.InstrumentMeasure.MeasureProperty,
Core.InstrumentMeasure.MeasureId
FROM Core.InstrumentMeasure INNER JOIN
Core.InstrumentSurvey ON Core.InstrumentMeasure.InstrumentConfigurationID =
Core.InstrumentSurvey.InstrumentConfigurationID INNER JOIN
Core.ValueConfiguration ON Core.InstrumentMeasure.InstrumentConfigurationID =
Core.ValueConfiguration.InstrumentConfigurationID AND
Core.InstrumentMeasure.MeasureIndex = Core.ValueConfiguration.MeasureIndex
,
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPanel' , N'SHEMA',N'Core',
N'VIEW',N'vInstrumentMeasures_GetAll', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPanel', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]
Begin DesignProperties =
Begin PaneConfigurations =
Begin PaneConfiguration = 0
NumPanes = 4
Configuration = "(H (1[26] 4[27] 2[16] 3) )"
End
Begin PaneConfiguration = 1
NumPanes = 3
Configuration = "(H (1 [50] 4 [25] 3))"
End
Begin PaneConfiguration = 2
NumPanes = 3
Configuration = "(H (1 [50] 2 [25] 3))"
End
Begin PaneConfiguration = 3
NumPanes = 3
Configuration = "(H (4 [30] 2 [40] 3))"
End
Begin PaneConfiguration = 4
NumPanes = 2
Configuration = "(H (1 [56] 3))"
End
Begin PaneConfiguration = 5
NumPanes = 2
Configuration = "(H (2 [66] 3))"
End
Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"
End
Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"
End
Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2) )"
End
Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2) )"
End
Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1) )"
End

```

```

Begin PaneConfiguration = 13
  NumPanes = 1
  Configuration = "(V (4))"
End
Begin PaneConfiguration = 14
  NumPanes = 1
  Configuration = "(V (2))"
End
ActivePaneConfig = 0
End
Begin DiagramPane =
  Begin Origin =
    Top = 0
    Left = 0
  End
  Begin Tables =
    Begin Table = "InstrumentMeasure (Core)"
      Begin Extent =
        Top = 6
        Left = 264
        Bottom = 121
        Right = 473
      End
      DisplayFlags = 280
      TopColumn = 0
    End
    Begin Table = "InstrumentSurvey (Core)"
      Begin Extent =
        Top = 8
        Left = 0
        Bottom = 123
        Right = 210
      End
      DisplayFlags = 280
      TopColumn = 0
    End
    Begin Table = "ValueConfiguration (Core)"
      Begin Extent =
        Top = 6
        Left = 533
        Bottom = 121
        Right = 743
      End
      DisplayFlags = 280
      TopColumn = 3
    End
  End
End
End
Begin SQLPane =
End
Begin DataPane =
  Begin ParameterDefaults = ""
  End
  Begin ColumnWidths = 12
    Width = 284
    Width = 1500
    Width = 2670
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
    Width = 1500
  End
End
Begin CriteriaPane =
  Begin ColumnWidths = 11
    Column = 1440
    Alias = 900
    Table = 1170
    Output = 720
    Append = 1400
    NewValue = 1170
    SortType = 1350
    SortOrder = 1410
    GroupBy = 1350
    Filter = 1350
    Or = 1350
    Or = 1350
    Or = 1350
  End
End
End
', @level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vInstrumentMeasures_GetAll'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPaneCount' , N'SCHEMA',N'Core',
N'VIEW',N'vInstrumentMeasures_GetAll', NULL,NULL))

```

LSI LASTEM GIDAS – Database description

```
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vInstrumentMeasures_GetAll'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spGidasVersion_Get]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-----
-- Author: Stefano Giarola
-- Create date: 27/10/2005
-- Description: Get database version
-----
CREATE PROCEDURE [Core].[spGidasVersion_Get]
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT Version, ReleaseDate FROM Core.GidasVersion
END
'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentType_GetAll]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description: Get all instrument types
-----
CREATE PROCEDURE [Core].[spInstrumentType_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT Prefix, [Name]
FROM Core.InstrumentType
END
'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentElaborationBase_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 4/02/2008
-- Description: Get all elaboration bases of a defined Survey
-----
CREATE PROCEDURE [Core].[spInstrumentElaborationBase_GetByConfigurationID]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationId int
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT ElaborationBaseIndex, ElaborationRate,ElaborationMeasureIndex,ElaborationItemNumber
FROM Core.InstrumentElaborationBase
WHERE InstrumentConfigurationId=@InstrumentConfigurationId
END
```

```

'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentElaborationBase_Add]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    26/10/2006
-- Description:    Add a new ElaborationBase
-- =====
CREATE PROCEDURE [Core].[spInstrumentElaborationBase_Add]
-- Add the parameters for the stored procedure here
    @InstrumentConfigurationId int,
    @ElaborationBaseIndex int,
    @ElaborationRate int,
    @ElaborationMeasureIndex int,
    @ElaborationItemNumber int

AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
INSERT INTO Core.InstrumentElaborationBase
(
    InstrumentConfigurationId,
    ElaborationBaseIndex,
    ElaborationRate,
    ElaborationMeasureIndex,
    ElaborationItemNumber
)
VALUES
(
    @InstrumentConfigurationId,
    @ElaborationBaseIndex,
    @ElaborationRate,
    @ElaborationMeasureIndex,
    @ElaborationItemNumber
)

END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spElogConfiguration_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    4/02/2008
-- Description:    Get extended properties of an E-Log configuration
-- =====
CREATE PROCEDURE [Core].[spElogConfiguration_GetByConfigurationID]
-- Add the parameters for the stored procedure here
    @InstrumentConfigurationId int

AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT UpdateRate, CISSConfiguration, FirmwareVersion
FROM Core.ELogConfiguration
WHERE InstrumentConfigurationId=@InstrumentConfigurationId

END

```

```

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spELogConfiguration_Add]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 27/1072006
-- Description: Insert ELog configuration
-- =====
CREATE PROCEDURE [Core].[spELogConfiguration_Add]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationId int,
@UpdateRate int,
@FirmwareVersion char(8),
@CISSConfiguration ntext
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;
INSERT INTO Core.ELogConfiguration (InstrumentConfigurationId, UpdateRate,FirmwareVersion,
CISSConfiguration)
VALUES (@InstrumentConfigurationId, @UpdateRate,@FirmwareVersion, @CISSConfiguration)

END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_Remove]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 17/4/2008
-- Description: Remove a selected InstrumentSurvey
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_Remove]
-- Add the parameters for the stored procedure here
@FactorySerialNumber varchar(20),
@ConfigurationDate datetime
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
--SET NOCOUNT ON;
-- Insert statements for procedure here
DELETE FROM Core.InstrumentSurvey WHERE FactorySerialNumber=@FactorySerialNumber
AND ConfigurationDate=@ConfigurationDate

END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.views WHERE object_id = OBJECT_ID(N'[Core].[vInstrumentSurvey_GetMoreRecentID]'))
EXEC dbo.sp_executesql @statement = N'CREATE VIEW [Core].[vInstrumentSurvey_GetMoreRecentID]
AS
SELECT FactorySerialNumber, MAX(InstrumentConfigurationID) AS maxCfgId
FROM Core.InstrumentSurvey
GROUP BY FactorySerialNumber
,
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPanel' , N'SHEMA',N'Core',
N'VIEW',N'vInstrumentSurvey_GetMoreRecentID', NULL,NULL))

```

```

EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPanel', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]
Begin DesignProperties =
  Begin PaneConfigurations =
    Begin PaneConfiguration = 0
      NumPanes = 4
      Configuration = "(H (1[40] 4[20] 2[20] 3) )"
    End
    Begin PaneConfiguration = 1
      NumPanes = 3
      Configuration = "(H (1 [50] 4 [25] 3))"
    End
    Begin PaneConfiguration = 2
      NumPanes = 3
      Configuration = "(H (1 [50] 2 [25] 3))"
    End
    Begin PaneConfiguration = 3
      NumPanes = 3
      Configuration = "(H (4 [30] 2 [40] 3))"
    End
    Begin PaneConfiguration = 4
      NumPanes = 2
      Configuration = "(H (1 [56] 3))"
    End
    Begin PaneConfiguration = 5
      NumPanes = 2
      Configuration = "(H (2 [66] 3))"
    End
    Begin PaneConfiguration = 6
      NumPanes = 2
      Configuration = "(H (4 [50] 3))"
    End
    Begin PaneConfiguration = 7
      NumPanes = 1
      Configuration = "(V (3))"
    End
    Begin PaneConfiguration = 8
      NumPanes = 3
      Configuration = "(H (1[56] 4[18] 2) )"
    End
    Begin PaneConfiguration = 9
      NumPanes = 2
      Configuration = "(H (1 [75] 4))"
    End
    Begin PaneConfiguration = 10
      NumPanes = 2
      Configuration = "(H (1[66] 2) )"
    End
    Begin PaneConfiguration = 11
      NumPanes = 2
      Configuration = "(H (4 [60] 2))"
    End
    Begin PaneConfiguration = 12
      NumPanes = 1
      Configuration = "(H (1) )"
    End
    Begin PaneConfiguration = 13
      NumPanes = 1
      Configuration = "(V (4))"
    End
    Begin PaneConfiguration = 14
      NumPanes = 1
      Configuration = "(V (2))"
    End
  ActivePaneConfig = 0
End
Begin DiagramPane =
  Begin Origin =
    Top = 0
    Left = 0
  End
  Begin Tables =
    Begin Table = "InstrumentSurvey (Core)"
      Begin Extent =
        Top = 30
        Left = 134
        Bottom = 145
        Right = 430
      End
      DisplayFlags = 280
      TopColumn = 0
    End
  End
End
Begin SQLPane =
End
Begin DataPane =
  Begin ParameterDefaults = ""
  End
  Begin ColumnWidths = 9
    Width = 284

```



```

        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
    End
End
Begin CriteriaPane =
    Begin ColumnWidths = 12
        Column = 2550
        Alias = 900
        Table = 1170
        Output = 720
        Append = 1400
        NewValue = 1170
        SortType = 1350
        SortOrder = 1410
        GroupBy = 1350
        Filter = 1350
        Or = 1350
        Or = 1350
        Or = 1350
    End
End
End
'
@level0type=N'SHEMA',@level0name=N'Core',
@level1type=N'VIEW',@level1name=N'vInstrumentSurvey_GetMoreRecentID'
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPaneCount' , N'SHEMA',N'Core',
N'VIEW',N'vInstrumentSurvey_GetMoreRecentID', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SHEMA',@level0name=N'Core', @level1type=N'VIEW',@level1name=N'vInstrumentSurvey_GetMoreRecentID'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spLastInstValue_RemoveBySerialNumber]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Giarola Stefano
-- Create date: 4/5/2008
-- Description: Remove all instvalue linked to an instrument
-- =====
CREATE PROCEDURE [Core].[spLastInstValue_RemoveBySerialNumber]
@FactorySerialNumber varchar(20)

AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

DELETE
FROM Core.LastInstValue
WHERE Core.LastInstValue.ValueConfigurationID IN
(
    Select Core.LastInstValue.ValueConfigurationID
    FROM
        Core.InstrumentSurvey INNER JOIN
        Core.ValueConfiguration ON Core.InstrumentSurvey.InstrumentConfigurationID =
Core.ValueConfiguration.InstrumentConfigurationID INNER JOIN
        Core.LastInstValue ON Core.ValueConfiguration.ValueConfigurationID =
Core.LastInstValue.ValueConfigurationID
WHERE
        Core.InstrumentSurvey.FactorySerialNumber = @FactorySerialNumber
)
END
'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_Add]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006

```

```

-- Description: Add a new Survey
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_Add]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @ConfigurationDate datetime,
    @InstrumentPrefix varchar(15),
    @LastStoredValueDate datetime,
    @NewId int output
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO [Core].InstrumentSurvey (FactorySerialNumber,ConfigurationDate,
InstrumentPrefix,LastStoredValueDate)
    VALUES (@FactorySerialNumber,@ConfigurationDate, @InstrumentPrefix,@LastStoredValueDate)

    --recupera l'id
    SET @NewId= SCOPE_IDENTITY()
END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_GetAll]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description: Get all instrument surveys
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_GetAll]
    -- Add the parameters for the stored procedure here
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT
InstrumentConfigurationID,FactorySerialNumber,ConfigurationDate,InstrumentPrefix,LastStoredValueDate,NumRecords
    FROM Core.InstrumentSurvey
END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_GetByFSN]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description: Get all surveys of a defined instrument
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_GetByFSN]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber char(20)
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT
InstrumentConfigurationID,FactorySerialNumber,ConfigurationDate,InstrumentPrefix,LastStoredValueDate,NumRecords
    FROM Core.InstrumentSurvey
    WHERE FactorySerialNumber=@FactorySerialNumber
END

```

```

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_GetByID]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    26/10/2006
-- Description:    Get an instrument survey
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_GetByID]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber char(20),
    @ConfigurationDate datetime
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT
InstrumentConfigurationID,FactorySerialNumber,ConfigurationDate,InstrumentPrefix,LastStoredValueDate,NumRecords
FROM Core.InstrumentSurvey
WHERE FactorySerialNumber=@FactorySerialNumber AND ConfigurationDate=@ConfigurationDate
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spInstrumentSurvey_GetMoreRecentByID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    26/10/2006
-- Description:    Get more recent survey of a defined instrument
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_GetMoreRecentByID]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber char(20)
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT
InstrumentConfigurationID,FactorySerialNumber,ConfigurationDate,InstrumentPrefix,LastStoredValueDate,NumRecords
FROM Core.InstrumentSurvey
WHERE FactorySerialNumber=@FactorySerialNumber
ORDER BY ConfigurationDate DESC
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_Refresh]') AND
type in (N'P', N'PC'))

```

```

BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author:           Stefano Giarola
-- Create date: 2/11/2006
-- Description: Refresh instrumentsurvey table of a defined instrument
-- =====
CREATE PROCEDURE [Core].[spInstrumentSurvey_Refresh]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber char(20),
    @ConfigurationDate datetime,
    @LastStoredValueDate datetime,
    @NumRecords bigint
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    UPDATE Core.InstrumentSurvey
        SET LastStoredValueDate=@LastStoredValueDate, NumRecords=@NumRecords
        WHERE FactorySerialNumber=@FactorySerialNumber AND ConfigurationDate=@ConfigurationDate
END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spRegistryLog_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author:           Stefano Giarola
-- Create date: 15/04/2008
-- Description: Add a record in the Elogregistry table
-- =====
CREATE PROCEDURE [Core].[spRegistryLog_Add]
    -- Add the parameters for the stored procedure here
    @logKey nvarchar(50),
    @logKeyId nvarchar(50),
    @logKeyNumber int,
    @NewId int output
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    INSERT INTO Core.RegistryLog (logKey, logKeyId, logKeyNumber)
    VALUES (@logKey, @logKeyId, @logKeyNumber)

    --recupera l'id
    SET @NewId= SCOPE_IDENTITY()
END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spRegistryLog_GetByKey]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author:           Stefano Giarola
-- Create date: 15/04/2008
-- Description: Get registrylog
-- =====
CREATE PROCEDURE [Core].[spRegistryLog_GetByKey]
    @logKey nvarchar(50)
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT logId, logKey, logKeyId, logKeyNumber FROM Core.RegistryLog WHERE logKey=@logKey
END
,
END
GO
SET ANSI_NULLS ON
GO

```

LSI LASTEM GIDAS – Database description

```
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spRegistryLog_Remove]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 17/4/2008
-- Description: Remove a selected LOG
-- =====
CREATE PROCEDURE [Core].[spRegistryLog_Remove]
-- Add the parameters for the stored procedure here
@logKey varchar(50)
AS
BEGIN
--impostare per avere il valore di ritorno
--SET NOCOUNT ON;

-- Insert statements for procedure here
DELETE FROM Core.RegistryLog WHERE logKey=@logKey
END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomView_GetAll]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 18/04/2008
-- Description: Get all records from CustomView
-- =====
CREATE PROCEDURE [Core].[spCustomView_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT CustomViewId, ViewName
FROM Core.CustomView
END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomView_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description: Insert new CustomView
-- =====
CREATE PROCEDURE [Core].[spCustomView_Add]
-- Add the parameters for the stored procedure here
@ViewName nvarchar(50),
@NewId int output
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
INSERT INTO [Core].CustomView (ViewName)
VALUES (@ViewName)
```

```

--recupera l''id
SET @NewId= SCOPE_IDENTITY()

END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomView_Remove]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date: 26/10/2006
-- Description: Remove a CustomView
-- =====
CREATE PROCEDURE [Core].[spCustomView_Remove]
-- Add the parameters for the stored procedure here
    @CustomViewId int
AS
BEGIN

-- Insert statements for procedure here
DELETE FROM [Core].CustomView WHERE CustomViewId=@CustomViewId

END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomView_Update]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author:          Stefano Giarola
-- Create date: 20/4/2008
-- Description: Update a CustomView
-- =====
CREATE PROCEDURE [Core].[spCustomView_Update]
-- Add the parameters for the stored procedure here
    @ViewName nvarchar(50),
    @CustomViewId int
AS
BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
UPDATE [Core].CustomView SET ViewName=@ViewName
WHERE CustomViewId=@CustomViewId

END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomViewMeasure_Remove]') AND
type in (N'P', N'PC'))
BEGIN

```

```

EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    26/10/2006
-- Description:    Remove all measure realted to a CustomView
-- =====
CREATE PROCEDURE [Core].[spCustomViewMeasure_Remove]
    -- Add the parameters for the stored procedure here
    @CustomViewId int
AS
BEGIN
    -- Insert statements for procedure here
    DELETE FROM [Core].CustomViewMeasure WHERE CustomViewId=@CustomViewId
END

'

GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomViewMeasure_Add]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    20/4/2008
-- Description:    Insert new CustomViewMeasure
-- =====
CREATE PROCEDURE [Core].[spCustomViewMeasure_Add]
    -- Add the parameters for the stored procedure here
    @CustomViewId int,
    @InstrumentConfigurationId int,
    @MeasureIndex int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO [Core].CustomViewMeasure (CustomViewId, InstrumentConfigurationId, MeasureIndex)
    VALUES(@CustomViewId, @InstrumentConfigurationId, @MeasureIndex)
END

'

GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spCustomViewMeasure_GetAll]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date:    18/04/2008
-- Description:    get all records from CustomViewMeasure
-- =====
CREATE PROCEDURE [Core].[spCustomViewMeasure_GetAll]
    -- Add the parameters for the stored procedure here

```

```

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT CustomViewId, InstrumentConfigurationId, MeasureIndex
    FROM Core.CustomViewMeasure
END

'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spCustomViewMeasure_GetByCustomViewId]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date: 18/04/2008
-- Description: get all cutosmview related records from CustomViewMeasure
-- =====
CREATE PROCEDURE [Core].[spCustomViewMeasure_GetByCustomViewId]
    -- Add the parameters for the stored procedure here
    @CustomViewId int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT CustomViewId, InstrumentConfigurationId, MeasureIndex
    FROM Core.CustomViewMeasure
    WHERE CustomViewId=@CustomViewId
END

'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomFilter_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author:          Stefano Giarola
-- Create date: 25/04/2008
-- Description: Insert a new custom filter
-- =====
CREATE PROCEDURE [Viewer].[spCustomFilter_Add]
    -- Add the parameters for the stored procedure here
    @ParentType int,
    @ParentId int,
    @FilterConfiguration ntext,
    @NewId int output
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
    INSERT INTO Viewer.CustomFilter (ParentType, ParentId, FilterConfiguration)
    VALUES (@ParentType, @ParentId, @FilterConfiguration)

    --recupera l'id
    SET @NewId= SCOPE_IDENTITY()
END

```



```

'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomFilter_GetAll]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:           Stefano Giarola
-- Create date: 25/04/2008
-- Description: get all records from CustomFilter
-- =====
CREATE PROCEDURE [Viewer].[spCustomFilter_GetAll]
    -- Add the parameters for the stored procedure here
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT CustomFilterId, ParentType,ParentId, FilterConfiguration
    FROM Viewer.CustomFilter
END

'

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomFilter_Remove]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:           Stefano Giarola
-- Create date: 26/10/2006
-- Description: Remove a CustomFilter
-- =====
CREATE PROCEDURE [Viewer].[spCustomFilter_Remove]
    -- Add the parameters for the stored procedure here
    @CustomFilterId int
AS
BEGIN

    -- Insert statements for procedure here
    DELETE FROM Viewer.CustomFilter WHERE CustomFilterId=@CustomFilterId
END

'

END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomFilter_Update]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

```

```

-- =====
-- Author:          Stefano Giarola
-- Create date: 26/10/2006
-- Description: Update a CustomFilter
-- =====
CREATE PROCEDURE [Viewer].[spCustomFilter_Update]
    -- Add the parameters for the stored procedure here
    @CustomFilterId int,
    @ParentType int,
    @ParentId int,
    @FilterConfiguration ntext
AS
BEGIN
    -- Insert statements for procedure here
    UPDATE Viewer.CustomFilter SET ParentType=@ParentType,
        ParentId=@ParentId, FilterConfiguration=@FilterConfiguration
    WHERE CustomFilterId=@CustomFilterId
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Viewer].[spCustomFilter_RemoveByParentId]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'

-- =====
-- Author:          Stefano Giarola
-- Create date: 26/10/2006
-- Description: Remove a CustomFilter by ParentId
-- =====
CREATE PROCEDURE [Viewer].[spCustomFilter_RemoveByParentId]
    -- Add the parameters for the stored procedure here
    @ParentId int
AS
BEGIN
    -- Insert statements for procedure here
    DELETE FROM Viewer.CustomFilter WHERE ParentId=@ParentId
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spValueConfiguration_GetMoreRecent]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author:          Stefano Giarola
-- Create date: 16/11/2006
-- Description:
-- =====
CREATE PROCEDURE [Core].[spValueConfiguration_GetMoreRecent]
    -- Add the parameters for the stored procedure here
    @OldInstCfId int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

```

```

--verifica la presenza di una configurazione più recente
declare @maxId int
SELECT @maxId=MAX(Core.InstrumentConfiguration.InstrumentConfigurationID)
FROM Core.InstrumentConfiguration INNER JOIN
    Core.InstrumentConfiguration AS InstrumentConfiguration_1 ON
    Core.InstrumentConfiguration.FactorySerialNumber
InstrumentConfiguration_1.FactorySerialNumber
WHERE InstrumentConfiguration_1.InstrumentConfigurationID=@OldInstCfgId

--se ha trovato esegue la query per recuperare tutte le nuove configurazioni
IF(@maxId > @OldInstCfgId) BEGIN
    SELECT ValueConfigurationID, InstrumentConfigurationID, MeasureIndex, ElaborationBaseIndex,
ElaborationItemIndex, ElaborationType, Position
    FROM Core.ValueConfiguration
    WHERE InstrumentConfigurationID=@maxId
END

END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spValueConfiguration_GetAll]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description:
-- =====
CREATE PROCEDURE [Core].[spValueConfiguration_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT
ValueConfigurationID,InstrumentConfigurationID,MeasureIndex,ElaborationBaseIndex,ElaborationItemIndex,
ElaborationType, Position
FROM Core.ValueConfiguration
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spValueConfiguration_Add]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 27/10/2006
-- Description:
-- =====
CREATE PROCEDURE [Core].[spValueConfiguration_Add]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int,
@MeasureIndex int,
@ElaborationBaseIndex int,
@ElaborationItemIndex int,
@ElaborationType int,
@Position int,
@NewId int output
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
INSERT INTO Core.ValueConfiguration
(
InstrumentConfigurationID,
MeasureIndex,

```

```

        ElaborationBaseIndex,
        ElaborationItemIndex,
        ElaborationType,
        Position
    )
VALUES
(
    @InstrumentConfigurationID,
    @MeasureIndex,
    @ElaborationBaseIndex,
    @ElaborationItemIndex,
    @ElaborationType,
    @Position
)

--recupera l'id
SET @NewId= SCOPE_IDENTITY()
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spValueConfiguration_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 26/10/2006
-- Description:
-- =====
CREATE PROCEDURE [Core].[spValueConfiguration_GetByConfigurationID]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int = -1
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT
ValueConfigurationID,InstrumentConfigurationID,MeasureIndex,ElaborationBaseIndex,ElaborationItemIndex,
ElaborationType, Position
FROM Core.ValueConfiguration
WHERE InstrumentConfigurationID=@InstrumentConfigurationID
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spValueConfiguration_GetSingleMoreRecent]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 16/11/2006
-- Description:
-- =====
CREATE PROCEDURE [Core].[spValueConfiguration_GetSingleMoreRecent]
-- Add the parameters for the stored procedure here
@OldInstCfgId int,
@MeasureIndex int,
@ElaborationBaseIndex int,
@ElaborationItemIndex int
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

--Verifica se esiste una nuova configurazione più recente
declare @maxId int
SELECT @maxId=MAX(Core.InstrumentConfiguration.InstrumentConfigurationID)
FROM Core.InstrumentConfiguration INNER JOIN
Core.InstrumentConfiguration AS InstrumentConfiguration_1 ON

```

```

        Core.InstrumentConfiguration.FactorySerialNumber
InstrumentConfiguration_1.FactorySerialNumber
        WHERE InstrumentConfiguration_1.InstrumentConfigurationID=@OldInstCfgId

--se ha trovato una nuova configurazione prosegue
IF(@maxId > @OldInstCfgId) BEGIN

        --ricava la configurazione aggiornata
        SELECT ValueConfigurationID, InstrumentConfigurationID, MeasureIndex, ElaborationBaseIndex,
ElaborationItemIndex, ElaborationType, Position
        FROM Core.ValueConfiguration
        WHERE InstrumentConfigurationID=@maxId
        AND MeasureIndex=@MeasureIndex
        AND ElaborationBaseIndex=@ElaborationBaseIndex
        AND ElaborationItemIndex=@ElaborationItemIndex

        END
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spLastInstValue_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 27/10/2006
-- Description:
-- =====
CREATE PROCEDURE [Core].[spLastInstValue_Add]
-- Add the parameters for the stored procedure here
@ValueConfigurationID int,
@InstDate datetime,
@InstValue real
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON

        DECLARE @rc int
        SELECT @rc=Count(ValueConfigurationID) FROM Core.LastInstValue WHERE
ValueConfigurationID=@ValueConfigurationID

        IF(@rc > 0)
                -- aggiorna il record
                UPDATE Core.LastInstValue SET InstDate=@InstDate, InstValue=@InstValue
                WHERE ValueConfigurationID=@ValueConfigurationID

        ELSE
                -- inserisce il nuovo recor
                INSERT INTO Core.LastInstValue
                (
                        ValueConfigurationID,
                        InstDate,
                        InstValue
                )
                VALUES
                (
                        @ValueConfigurationID,
                        @InstDate,
                        @InstValue
                )
END
,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spElabTypeList_Get]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'-- =====
-- Author: Stefano Giarola
-- Create date: 27/10/2005
-- Description: Get ElabType list
-- =====
CREATE PROCEDURE [Core].[spElabTypeList_Get]
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from

```

```

-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT IdElabType, ElabTypeString, ElabTypeToDo FROM Core.ElabTypeList
END

,
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.views WHERE object_id =
OBJECT_ID(N'[Core].[vValueConfiguration_GetByMoreRecentInstrumentConfigurationID]'))
EXEC dbo.sp_executesql @statement = N'/*WHERE (Core.vInstrumentSurvey_GetMoreRecentID.FactorySerialNumber =
''05110008'')*/
CREATE VIEW [Core].[vValueConfiguration_GetByMoreRecentInstrumentConfigurationID]
AS
SELECT
Core.vInstrumentSurvey_GetMoreRecentID.FactorySerialNumber,
Core.ValueConfiguration.ValueConfigurationID,
Core.ValueConfiguration.MeasureIndex,
Core.ValueConfiguration.ElaborationBaseIndex,
Core.ValueConfiguration.ElaborationItemIndex,
Core.ValueConfiguration.ElaborationType
FROM Core.vInstrumentSurvey_GetMoreRecentID INNER JOIN
Core.ValueConfiguration ON Core.vInstrumentSurvey_GetMoreRecentID.maxCfgId =
Core.ValueConfiguration.InstrumentConfigurationID
,
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPanel' , N'SHEMA',N'Core',
N'VIEW',N'vValueConfiguration_GetByMoreRecentInstrumentConfigurationID', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPanel', @value=N'[0E232FF0-B466-11cf-A24F-00AA00A3EFFF, 1.00]
Begin DesignProperties =
Begin PaneConfigurations =
Begin PaneConfiguration = 0
NumPanes = 4
Configuration = "(H (1[40] 4[13] 2[20] 3) )"
End
Begin PaneConfiguration = 1
NumPanes = 3
Configuration = "(H (1 [50] 4 [25] 3))"
End
Begin PaneConfiguration = 2
NumPanes = 3
Configuration = "(H (1 [50] 2 [25] 3))"
End
Begin PaneConfiguration = 3
NumPanes = 3
Configuration = "(H (4 [30] 2 [40] 3))"
End
Begin PaneConfiguration = 4
NumPanes = 2
Configuration = "(H (1 [56] 3))"
End
Begin PaneConfiguration = 5
NumPanes = 2
Configuration = "(H (2 [66] 3))"
End
Begin PaneConfiguration = 6
NumPanes = 2
Configuration = "(H (4 [50] 3))"
End
Begin PaneConfiguration = 7
NumPanes = 1
Configuration = "(V (3))"
End
Begin PaneConfiguration = 8
NumPanes = 3
Configuration = "(H (1[56] 4[18] 2) )"
End
Begin PaneConfiguration = 9
NumPanes = 2
Configuration = "(H (1 [75] 4))"
End
Begin PaneConfiguration = 10
NumPanes = 2
Configuration = "(H (1[66] 2) )"
End
Begin PaneConfiguration = 11
NumPanes = 2
Configuration = "(H (4 [60] 2))"
End
Begin PaneConfiguration = 12
NumPanes = 1
Configuration = "(H (1) )"
End
Begin PaneConfiguration = 13
NumPanes = 1

```

```

        Configuration = "(V (4))"
    End
    Begin PaneConfiguration = 14
        NumPanes = 1
        Configuration = "(V (2))"
    End
    ActivePaneConfig = 0
End
Begin DiagramPane =
    Begin Origin =
        Top = 0
        Left = 0
    End
    Begin Tables =
        Begin Table = "vInstrumentSurvey_GetMoreRecentID (Core)"
            Begin Extent =
                Top = 6
                Left = 38
                Bottom = 91
                Right = 219
            End
            DisplayFlags = 280
            TopColumn = 0
        End
        Begin Table = "ValueConfiguration (Core)"
            Begin Extent =
                Top = 6
                Left = 257
                Bottom = 121
                Right = 467
            End
            DisplayFlags = 280
            TopColumn = 0
        End
    End
End
Begin SQLPane =
End
Begin DataPane =
    Begin ParameterDefaults = ""
    End
    Begin ColumnWidths = 9
        Width = 284
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
        Width = 1500
    End
End
Begin CriteriaPane =
    Begin ColumnWidths = 11
        Column = 1440
        Alias = 900
        Table = 1170
        Output = 720
        Append = 1400
        NewValue = 1170
        SortType = 1350
        SortOrder = 1410
        GroupBy = 1350
        Filter = 1350
        Or = 1350
        Or = 1350
        Or = 1350
    End
End
End
',
@level0type=N'SCHEMA',@level0name=N'Core',
@level1type=N'VIEW',@level1name=N'vValueConfiguration_GetByMoreRecentInstrumentConfigurationID'
GO

-----
-- Relazioni
----- */
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_DiagramPaneCount' , N'SCHEMA',N'Core',
N'VIEW',N'vValueConfiguration_GetByMoreRecentInstrumentConfigurationID', NULL,NULL))
EXEC sys.sp_addextendedproperty @name=N'MS_DiagramPaneCount', @value=1 ,
@level0type=N'SCHEMA',@level0name=N'Core',
@level1type=N'VIEW',@level1name=N'vValueConfiguration_GetByMoreRecentInstrumentConfigurationID'
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_InstrumentSurvey_InstrumentRegistry]') AND parent_object_id =
OBJECT_ID(N'[Core].[InstrumentSurvey]'))
ALTER TABLE [Core].[InstrumentSurvey] WITH CHECK ADD CONSTRAINT [FK_InstrumentSurvey_InstrumentRegistry] FOREIGN
KEY([FactorySerialNumber])
REFERENCES [Core].[InstrumentRegistry] ([FactorySerialNumber])

```

LSI LASTEM GIDAS – Database description

```
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[InstrumentSurvey] CHECK CONSTRAINT [FK_InstrumentSurvey_InstrumentRegistry]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_CustomViewMeasure_CustomView]')
AND parent_object_id =
OBJECT_ID(N'[Core].[CustomViewMeasure]'))
ALTER TABLE [Core].[CustomViewMeasure] WITH CHECK ADD CONSTRAINT [FK_CustomViewMeasure_CustomView] FOREIGN
KEY([CustomViewId])
REFERENCES [Core].[CustomView] ([CustomViewId])
ON DELETE CASCADE
GO
ALTER TABLE [Core].[CustomViewMeasure] CHECK CONSTRAINT [FK_CustomViewMeasure_CustomView]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_CustomViewMeasure_InstrumentMeasure]')
AND parent_object_id =
OBJECT_ID(N'[Core].[CustomViewMeasure]'))
ALTER TABLE [Core].[CustomViewMeasure] WITH CHECK ADD CONSTRAINT [FK_CustomViewMeasure_InstrumentMeasure]
FOREIGN KEY([InstrumentConfigurationId], [MeasureIndex])
REFERENCES [Core].[InstrumentMeasure] ([InstrumentConfigurationId], [MeasureIndex])
ON DELETE CASCADE
GO
ALTER TABLE [Core].[CustomViewMeasure] CHECK CONSTRAINT [FK_CustomViewMeasure_InstrumentMeasure]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_InstrumentRegistry_InstrumentType]')
AND parent_object_id =
OBJECT_ID(N'[Core].[InstrumentRegistry]'))
ALTER TABLE [Core].[InstrumentRegistry] WITH CHECK ADD CONSTRAINT [FK_InstrumentRegistry_InstrumentType] FOREIGN
KEY([InstrumentPrefix])
REFERENCES [Core].[InstrumentType] ([Prefix])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[InstrumentRegistry] CHECK CONSTRAINT [FK_InstrumentRegistry_InstrumentType]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_InstrumentMeasure_InstrumentSurvey]')
AND parent_object_id =
OBJECT_ID(N'[Core].[InstrumentMeasure]'))
ALTER TABLE [Core].[InstrumentMeasure] WITH CHECK ADD CONSTRAINT [FK_InstrumentMeasure_InstrumentSurvey] FOREIGN
KEY([InstrumentConfigurationId])
REFERENCES [Core].[InstrumentSurvey] ([InstrumentConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[InstrumentMeasure] CHECK CONSTRAINT [FK_InstrumentMeasure_InstrumentSurvey]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_InstrumentElaborationBase_InstrumentSurvey]')
AND parent_object_id =
OBJECT_ID(N'[Core].[InstrumentElaborationBase]'))
ALTER TABLE [Core].[InstrumentElaborationBase] WITH CHECK ADD CONSTRAINT
[FK_InstrumentElaborationBase_InstrumentSurvey] FOREIGN KEY([InstrumentConfigurationId])
REFERENCES [Core].[InstrumentSurvey] ([InstrumentConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[InstrumentElaborationBase] CHECK CONSTRAINT [FK_InstrumentElaborationBase_InstrumentSurvey]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_ValueConfiguration_InstrumentSurvey]')
AND parent_object_id =
OBJECT_ID(N'[Core].[ValueConfiguration]'))
ALTER TABLE [Core].[ValueConfiguration] WITH CHECK ADD CONSTRAINT [FK_ValueConfiguration_InstrumentSurvey]
FOREIGN KEY([InstrumentConfigurationID])
REFERENCES [Core].[InstrumentSurvey] ([InstrumentConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[ValueConfiguration] CHECK CONSTRAINT [FK_ValueConfiguration_InstrumentSurvey]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_LastInstValue_ValueConfiguration]')
AND parent_object_id =
OBJECT_ID(N'[Core].[LastInstValue]'))
ALTER TABLE [Core].[LastInstValue] WITH CHECK ADD CONSTRAINT [FK_LastInstValue_ValueConfiguration] FOREIGN
KEY([ValueConfigurationID])
REFERENCES [Core].[ValueConfiguration] ([ValueConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[LastInstValue] CHECK CONSTRAINT [FK_LastInstValue_ValueConfiguration]
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id =
OBJECT_ID(N'[Core].[FK_RawValue_ValueConfiguration]') AND parent_object_id = OBJECT_ID(N'[Core].[RawValue]'))
ALTER TABLE [Core].[RawValue] WITH CHECK ADD CONSTRAINT [FK_RawValue_ValueConfiguration] FOREIGN
KEY([ValueConfigurationID])
REFERENCES [Core].[ValueConfiguration] ([ValueConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [Core].[RawValue] CHECK CONSTRAINT [FK_RawValue_ValueConfiguration]
GO
```


LSI LASTEM GIDAS – Database description

```
IF NOT EXISTS (SELECT * FROM sys.check_constraints WHERE object_id =
OBJECT_ID(N'[Core].[CK_RawValue_ValidPercentage]') AND parent_object_id = OBJECT_ID(N'[Core].[RawValue]'))
ALTER TABLE [Core].[RawValue] WITH CHECK ADD CONSTRAINT [CK_RawValue_ValidPercentage] CHECK
([ValidPercentage]>=(0) AND [ValidPercentage]<=(100))
GO
ALTER TABLE [Core].[RawValue] CHECK CONSTRAINT [CK_RawValue_ValidPercentage]
GO
IF NOT EXISTS (SELECT * FROM ::fn_listextendedproperty(N'MS_Description' , N'SHEMA',N'Core',
N'TABLE',N'RawValue', N'CONSTRAINT',N'CK_RawValue_ValidPercentage'))
EXEC sys.sp_addextendedproperty @name=N'MS_Description', @value=N'valori ammessi 0-100' ,
@level0type=N'SHEMA',@level0name=N'Core', @level1type=N'TABLE',@level1name=N'RawValue',
@level2type=N'CONSTRAINT',@level2name=N'CK_RawValue_ValidPercentage'
GO

-----
-- Add AddIns table (versione 2.1.0.0)
----- */
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[AddIns]')) AND type in (N'U')
BEGIN
CREATE TABLE [Core].[AddIns] (
    [AddInCode] [nvarchar](20) NOT NULL,
    [Description] [nvarchar](200) NOT NULL,
    [AttachedDate] [datetime] NOT NULL
    CONSTRAINT [PK_AddIn] PRIMARY KEY CLUSTERED
(
    [AddInCode] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
END
GO

IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spAddIn_Add]')) AND type in (N'P',
N'PC')
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spAddIn_Add]
    -- Add the parameters for the stored procedure here
    @AddInCode nvarchar(20),
    @Description nvarchar(200),
    @AttachedDate datetime
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO [Core].[AddIns] (AddInCode,[Description],AttachedDate)
    VALUES (@AddInCode,@Description,@AttachedDate)
END'
END

-----
-- Add backup/restore sp (versione 2.3.0.0)
----- */
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spInstrumentSurvey_GetFastDataRange]')) AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentSurvey_GetFastDataRange]
    -- Add the parameters for the stored procedure here
    @elabID int,
    @instID int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    Select Min(ElaborationDate) as mindate, Max(ElaborationDate) as maxdate from Core.RawValue
    WHERE ValueConfigurationID=@elabID or ValueConfigurationID=@instID
END'
END
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurvey_GetDataRange]'))
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentSurvey_GetDataRange]
    -- Add the parameters for the stored procedure here
    @InstrumentConfigurationID int
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;
```

LSI LASTEM GIDAS – Database description

```
-- Insert statements for procedure here
Select Min(ElaborationDate) as mindate, Max(ElaborationDate) as maxdate from Core.RawValue
WHERE ValueConfigurationID in
(
    SELECT Core.ValueConfiguration.ValueConfigurationID
    FROM Core.ValueConfiguration
    where Core.ValueConfiguration.InstrumentConfigurationID=@InstrumentConfigurationID
)
END'
END
GO
-----
-- Add survey support (versione 2.4.0.0)
----- */
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[UserSurvey]') AND type in (N'U'))
BEGIN
CREATE TABLE [Core].[UserSurvey](
    [InstrumentConfigurationId] [int] NOT NULL,
    [FactorySerialNumber] [nvarchar](20) NOT NULL,
    [DtStart] [datetime] NOT NULL,
    [DtEnd] [datetime] NOT NULL,
    [Description] [nvarchar](200) NOT NULL,
    [SurveyNumber] [int] NOT NULL,
    CONSTRAINT [PK_UserSurvey_1] PRIMARY KEY CLUSTERED
(
    [InstrumentConfigurationId] ASC,
    [DtStart] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id = OBJECT_ID(N'[Core].[FK_UserSurvey_InstrumentSurvey]')
AND parent_object_id = OBJECT_ID(N'[Core].[UserSurvey]'))
ALTER TABLE [Core].[UserSurvey] WITH CHECK ADD CONSTRAINT [FK_UserSurvey_InstrumentSurvey] FOREIGN
KEY([InstrumentConfigurationId])
REFERENCES [Core].[InstrumentSurvey] ([InstrumentConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
IF EXISTS (SELECT * FROM sys.foreign_keys WHERE object_id = OBJECT_ID(N'[Core].[FK_UserSurvey_InstrumentSurvey]')
AND parent_object_id = OBJECT_ID(N'[Core].[UserSurvey]'))
ALTER TABLE [Core].[UserSurvey] CHECK CONSTRAINT [FK_UserSurvey_InstrumentSurvey]
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserSurvey_Remove]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 7/4/2010
-- Description: Remove a selected UserSurvey
-- =====
CREATE PROCEDURE [Core].[spUserSurvey_Remove]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationId int,
@DtStart datetime
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
--SET NOCOUNT ON;
-- Insert statements for procedure here
DELETE FROM Core.UserSurvey
WHERE InstrumentConfigurationId=@InstrumentConfigurationId AND DtStart=@DtStart
END'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserSurvey_GetByFSN]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
```

```

-- =====
-- Author:          Stefano Giarola
-- Create date: 26/10/2006
-- Description:    Get all user surveys of a defined instrument
-- =====
CREATE PROCEDURE [Core].[spUserSurvey_GetByFSN]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber char(20)

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT InstrumentConfigurationID,FactorySerialNumber, DtStart, DtEnd, [Description], SurveyNumber
    FROM Core.UserSurvey
    WHERE FactorySerialNumber=@FactorySerialNumber
END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserSurvey_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author:          Stefano Giarola
-- Create date: 7/4/2010
-- Description:    Add a new UserSurvey
-- =====
CREATE PROCEDURE [Core].[spUserSurvey_Add]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @InstrumentConfigurationId int,
    @DtStart datetime,
    @DtEnd datetime,
    @Description nvarchar(200),
    @SurveyNumber int

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO Core.UserSurvey (FactorySerialNumber,InstrumentConfigurationId,
DtStart,DtEnd,[Description],SurveyNumber)
    VALUES (@FactorySerialNumber,@InstrumentConfigurationId, @DtStart,@DtEnd,@Description, @SurveyNumber)

END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserSurvey_AddWithCheck]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author:          Stefano Giarola
-- Create date: 08/04/2010
-- Description:    Add a single row of User survey, checking primarykey violation
-- Return:        1=added, -1=error, 0=already in the table
-- =====
CREATE PROCEDURE [Core].[spUserSurvey_AddWithCheck]
    -- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @InstrumentConfigurationId int,
    @DtStart datetime,
    @DtEnd datetime,
    @Description nvarchar(200),
    @SurveyNumber int,
    @RowCount int output

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    BEGIN TRY

```

```

INSERT INTO Core.UserSurvey
(
    FactorySerialNumber,
    InstrumentConfigurationId,
    DtStart,
    DtEnd,
    [Description],
    SurveyNumber
)
VALUES
(
    @FactorySerialNumber,
    @InstrumentConfigurationId,
    @DtStart,
    @DtEnd,
    @Description,
    @SurveyNumber
)
SET @RowCount='1'

END TRY
BEGIN CATCH
    IF (ERROR_NUMBER() = 2627) BEGIN
        SET @RowCount='0'
    END
    ELSE BEGIN
        SET @RowCount='-1'
    END
END CATCH

END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spUserSurvey_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
=====
-- Author:          Stefano Giarola
-- Create date: 26/10/2006
-- Description: Get an instrument survey
=====
CREATE PROCEDURE [Core].[spUserSurvey_GetByConfigurationID]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationId int
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT InstrumentConfigurationID,FactorySerialNumber,DtStart, DtEnd, [Description], SurveyNumber
FROM Core.UserSurvey
WHERE InstrumentConfigurationId=@InstrumentConfigurationId
END
'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserSurvey_GetAll]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
=====
-- Author:          Stefano Giarola
-- Create date: 7/4/2010
-- Description: Get all user surveys
=====
CREATE PROCEDURE [Core].[spUserSurvey_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT InstrumentConfigurationId, FactorySerialNumber, DtStart, DtEnd, [Description], SurveyNumber
FROM Core.UserSurvey
END
'
END
'

```

```

END
GO

-----
-- Add UserConfigurationAttributes support (version 2.5.0.0)
----- */
/***** Object: Table [Core].[UserConfigurationAttributes] Script Date: 05/27/2010 17:43:40 *****/
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[UserConfigurationAttributes]') AND
type in (N'U'))
BEGIN
CREATE TABLE [Core].[UserConfigurationAttributes](
    [InstrumentConfigurationID] [int] NOT NULL,
    [Name] [nvarchar](100) NOT NULL,
    [Description] [nvarchar](200) NOT NULL,
    [Code] [nvarchar](50) NOT NULL
) ON [PRIMARY]
ALTER TABLE [Core].[UserConfigurationAttributes] WITH CHECK ADD CONSTRAINT
[FK_UserConfigurationAttributes_InstrumentSurvey] FOREIGN KEY([InstrumentConfigurationID])
REFERENCES [Core].[InstrumentSurvey] ([InstrumentConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
ALTER TABLE [Core].[UserConfigurationAttributes] CHECK CONSTRAINT
[FK_UserConfigurationAttributes_InstrumentSurvey]
END

IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spUserConfigurationAttributes_Add]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 28/4/2010
-- Description: Add a new spUserConfigurationAttributes
-- =====
CREATE PROCEDURE [Core].[spUserConfigurationAttributes_Add]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationId int,
@Name nvarchar(100),
@Description nvarchar(200),
@Code nvarchar(25)
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
INSERT INTO Core.UserConfigurationAttributes (InstrumentConfigurationID, Name, [Description],Code)
VALUES(@InstrumentConfigurationID, @Name, @Description,@Code)

END'
END

IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spUserConfigurationAttributes_GetAll]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 28/4/2010
-- Description: Get all UserConfigurationAttributes
-- =====
CREATE PROCEDURE [Core].[spUserConfigurationAttributes_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT InstrumentConfigurationID, Name, [Description],Code FROM Core.UserConfigurationAttributes

END'
END

IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spUserConfigurationAttributes_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 28/4/2010
-- Description: Get UserConfigurationAttributes by ConfigurationID
-- =====
CREATE PROCEDURE [Core].[spUserConfigurationAttributes_GetByConfigurationID]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int
AS
BEGIN

```

LSI LASTEM GIDAS – Database description

```
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT InstrumentConfigurationID, Name, [Description], Code FROM Core.UserConfigurationAttributes
WHERE InstrumentConfigurationID=@InstrumentConfigurationID

END'
END
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spUserConfigurationAttributes_Update]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
-- =====
-- Author: Stefano Giarola
-- Create date: 28/04/2010
-- Description: Update a UserConfigurationAttributes
-- =====
CREATE PROCEDURE [Core].[spUserConfigurationAttributes_Update]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int,
@Name nvarchar(100),
@Description nvarchar(200),
@Code nvarchar(25)

AS
BEGIN

-- Insert statements for procedure here
UPDATE Core.UserConfigurationAttributes SET Name=@Name, [Description]=@Description, Code=@Code
WHERE InstrumentConfigurationID=@InstrumentConfigurationID

END'
END
GO

-----
-- Add SurveyInstInfo support (version 2.6.0.0 corretto)
----- */
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[InstrumentSurveyInstInfo]') AND
type in (N'U'))
BEGIN
CREATE TABLE [Core].[InstrumentSurveyInstInfo] (
[InstrumentConfigurationID] [int] NOT NULL,
[FirstInstDate] [datetime] NOT NULL,
[LastInstDate] [datetime] NOT NULL,
[NumIntRecords] [bigint] NOT NULL,
CONSTRAINT [PK_InstrumentSurveyInstInfo] PRIMARY KEY CLUSTERED
(
[InstrumentConfigurationID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
ALTER TABLE [Core].[InstrumentSurveyInstInfo] WITH CHECK ADD CONSTRAINT
[FK_InstrumentSurveyInstInfo_InstrumentSurvey] FOREIGN KEY([InstrumentConfigurationID])
REFERENCES [Core].[InstrumentSurvey] ([InstrumentConfigurationID])
ON UPDATE CASCADE
ON DELETE CASCADE
ALTER TABLE [Core].[InstrumentSurveyInstInfo] CHECK CONSTRAINT [FK_InstrumentSurveyInstInfo_InstrumentSurvey]
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spInstrumentSurveyInstInfo_Refresh]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentSurveyInstInfo_Refresh]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int,
@InstDate datetime,
@NumIntRecords bigint

AS
BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON

DECLARE @rc int
declare @dt1 datetime
declare @dt2 datetime
declare @nr bigint
```

LSI LASTEM GIDAS – Database description

```
SELECT @rc=InstrumentConfigurationID, @dt1=FirstInstDate, @dt2=LastInstDate, @nr=NumIntRecords FROM
Core.InstrumentSurveyInstInfo WHERE InstrumentConfigurationID=@InstrumentConfigurationID

IF(@rc > 0)
BEGIN
    -- aggiorna il record scegliendo i valori giusti
    IF(@dt1 > @InstDate)
        SET @dt1=@InstDate

    IF(@dt2 < @InstDate)
        SET @dt2=@InstDate

    UPDATE Core.InstrumentSurveyInstInfo SET FirstInstDate=@dt1 ,LastInstDate=@dt2
,NumIntRecords= @nr +@NumIntRecords
WHERE InstrumentConfigurationID=@InstrumentConfigurationID
END
ELSE
    -- inserisce il nuovo record
    INSERT INTO Core.InstrumentSurveyInstInfo
    (
        InstrumentConfigurationID,
        FirstInstDate,
        LastInstDate,
        NumIntRecords
    )
    VALUES
    (
        @InstrumentConfigurationID,
        @InstDate,
        @InstDate,
        @NumIntRecords
    )
END'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentSurveyInstInfo
_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentSurveyInstInfo _GetByConfigurationID]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT InstrumentConfigurationID, FirstInstDate, LastInstDate, NumIntRecords FROM
Core.InstrumentSurveyInstInfo
WHERE InstrumentConfigurationID=@InstrumentConfigurationID
END'
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spLastInstValue26_Add]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spLastInstValue26_Add]
-- Add the parameters for the stored procedure here
@ValueConfigurationID int,
@InstDate datetime,
@InstValue real
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON

DECLARE @rc int
SELECT @rc=Count(ValueConfigurationID) FROM Core.LastInstValue WHERE
ValueConfigurationID=@ValueConfigurationID
IF(@rc > 0)
begin
-- aggiorna il record
UPDATE Core.LastInstValue SET InstDate=@InstDate, InstValue=@InstValue
WHERE ValueConfigurationID=@ValueConfigurationID
end
ELSE
BEGIN
```

```

-- inserisce il nuovo recor
INSERT INTO Core.LastInstValue
(
    ValueConfigurationID,
    InstDate,
    InstValue
)
VALUES
(
    @ValueConfigurationID,
    @InstDate,
    @InstValue
)
END
END'
END
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
EXEC dbo.sp_executesql @statement = N'
ALTER PROCEDURE [Core].[spLastInstValue_Add]
-- Add the parameters for the stored procedure here
@ValueConfigurationID int,
@InstDate datetime,
@InstValue real
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON

DECLARE @rc int
SELECT @rc=Count(ValueConfigurationID) FROM Core.LastInstValue WHERE
ValueConfigurationID=@ValueConfigurationID
IF(@rc > 0)
begin
-- aggiorna il record
UPDATE Core.LastInstValue SET InstDate=@InstDate, InstValue=@InstValue
WHERE ValueConfigurationID=@ValueConfigurationID
end
ELSE
BEGIN
-- inserisce il nuovo recor
INSERT INTO Core.LastInstValue
(
    ValueConfigurationID,
    InstDate,
    InstValue
)
VALUES
(
    @ValueConfigurationID,
    @InstDate,
    @InstValue
)
END

DECLARE @cfgid int
declare @dt1 datetime
declare @dt2 datetime
declare @nr bigint
set @rc=-1

SELECT @cfgid=InstrumentConfigurationID FROM Core.ValueConfiguration WHERE
ValueConfigurationID=@ValueConfigurationID
SELECT @rc=InstrumentConfigurationID, @dt1=FirstInstDate, @dt2=LastInstDate, @nr=NumIntRecords FROM
Core.InstrumentSurveyInstInfo WHERE InstrumentConfigurationID=@cfgid

IF(@rc >= 0)
BEGIN
-- aggiorna il record scegliendo i valori giusti
IF(@dt1 > @InstDate)
SET @dt1=@InstDate

IF(@dt2 < @InstDate)
SET @dt2=@InstDate

UPDATE Core.InstrumentSurveyInstInfo SET FirstInstDate=@dt1 ,LastInstDate=@dt2
,NumIntRecords= @nr +1
WHERE InstrumentConfigurationID=@cfgid
END
ELSE
-- inserisce il nuovo record
INSERT INTO Core.InstrumentSurveyInstInfo
(
    InstrumentConfigurationID,
    FirstInstDate,
    LastInstDate,

```



```

                NumIntRecords
            )
        VALUES
        (
            @cfgid,
            @InstDate,
            @InstDate,
            1
        )
    END'

EXEC dbo.sp_executesql @statement = N'
ALTER PROCEDURE [Core].[spInstrumentSurvey_Add]
-- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @ConfigurationDate datetime,
    @InstrumentPrefix varchar(15),
    @LastStoredValueDate datetime,
    @NewId int output
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
INSERT INTO [Core].InstrumentSurvey (FactorySerialNumber,ConfigurationDate,
InstrumentPrefix,LastStoredValueDate)
VALUES(@FactorySerialNumber,@ConfigurationDate, @InstrumentPrefix,@LastStoredValueDate)

--recupera l'id
SET @NewId= SCOPE_IDENTITY()

--aggiunge il nuovo record nella nuova tabella
INSERT INTO Core.InstrumentSurveyInstInfo (InstrumentConfigurationID, FirstInstDate, LastInstDate,
NumIntRecords)
VALUES (@NewId,'2100-01-01','1900-01-01','0')

END'
GO
-----
-- CreateAddInsFrom20602 (versione 2.7)
-- Aggiunge il supporto ai Gruppi
----- */
/***** Object: Table [Viewer].[CustomGroup] *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[CustomGroup]') AND type in
(N'U'))
BEGIN
CREATE TABLE [Viewer].[CustomGroup](
    [IdGroup] [int] IDENTITY(1,1) NOT NULL,
    [Name] [nvarchar](100) NOT NULL,
    CONSTRAINT [PK_Group] PRIMARY KEY CLUSTERED
(
    [IdGroup] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
END
GO

/***** Object: Table [Viewer].[CustomGroupRegistry] Script Date: 04/13/2011 14:02:33 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[CustomGroupRegistry]') AND type
in (N'U'))
BEGIN
CREATE TABLE [Viewer].[CustomGroupRegistry](
    [Id] [int] IDENTITY(1,1) NOT NULL,
    [IdGroup] [int] NOT NULL,
    [FactorySerialNumber] [varchar](20) NOT NULL,
    CONSTRAINT [PK_GroupRegistry] PRIMARY KEY CLUSTERED
(
    [Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
ALTER TABLE [Viewer].[CustomGroupRegistry] WITH CHECK ADD CONSTRAINT [FK_CustomGroupRegistry_CustomGroup]
FOREIGN KEY([IdGroup])
REFERENCES [Viewer].[CustomGroup] ([IdGroup])
ON UPDATE CASCADE
ON DELETE CASCADE
ALTER TABLE [Viewer].[CustomGroupRegistry] CHECK CONSTRAINT [FK_CustomGroupRegistry_CustomGroup]
END
GO

```

LSI LASTEM GIDAS – Database description

```

/***** Object: StoredProcedure [Viewer].[spCustomGroup_GetAll]    Script Date: 04/13/2011 14:02:32 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomGroup_GetAll]') AND type
in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Viewer].[spCustomGroup_GetAll]
    -- Add the parameters for the stored procedure here
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT IdGroup, Name
    FROM Viewer.CustomGroup
END'
END
GO

/***** Object: StoredProcedure [Viewer].[spCustomGroup_RemoveAll]    Script Date: 04/13/2011 14:02:32 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomGroup_RemoveAll]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Viewer].[spCustomGroup_RemoveAll]
    -- Add the parameters for the stored procedure here
AS
BEGIN

    -- Insert statements for procedure here
    DELETE FROM [Viewer].CustomGroup

END'
END
GO

/***** Object: StoredProcedure [Viewer].[spCustomGroup_Add]    Script Date: 04/13/2011 14:02:32 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomGroup_Add]') AND type in
(N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Viewer].[spCustomGroup_Add]
    -- Add the parameters for the stored procedure here
    @Name nvarchar(100),
    @NewId int output
AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO [Viewer].CustomGroup (Name)
    VALUES (@Name)

    --recupera id
    SET @NewId= SCOPE_IDENTITY()

END'
END
GO

/***** Object: StoredProcedure [Viewer].[spCustomGroupRegistry_Add]    Script Date: 04/13/2011 14:02:32 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Viewer].[spCustomGroupRegistry_Add]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Viewer].[spCustomGroupRegistry_Add]
    -- Add the parameters for the stored procedure here
    @IdGroup int,
    @FactorySerialNumber varchar(20),
    @NewId int output

```

LSI LASTEM GIDAS – Database description

```

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    INSERT INTO [Viewer].CustomGroupRegistry (IdGroup, FactorySerialNumber)
    VALUES (@IdGroup,@FactorySerialNumber)

    --recupera id
    SET @NewId= SCOPE_IDENTITY()

END'
END
GO

/***** Object:  StoredProcedure [Viewer].[spCustomGroup_GetFactoryMatrsFromIdGroup]    Script Date: 04/13/2011
14:02:32 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Viewer].[spCustomGroup_GetFactoryMatrsFromIdGroup]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Viewer].[spCustomGroup_GetFactoryMatrsFromIdGroup]
-- Add the parameters for the stored procedure here
@IdGroup int
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT FactorySerialNumber
FROM Viewer.CustomGroupRegistry
WHERE IdGroup=@IdGroup
END'
END
GO

-----
-- Add fixed data
-- (2.4.0) aggiunti i record di supporto per RLog e RComm
-- (2.11.0) modificate le elaborazioni per RisDir e RisVel
----- */
INSERT INTO [Gidas].[Core].[InstrumentType] ([Prefix],[Name]) VALUES ('BabucABC','Babuc ABC')
INSERT INTO [Gidas].[Core].[InstrumentType] ([Prefix],[Name]) VALUES ('BabucM','Babuc A/M')
INSERT INTO [Gidas].[Core].[InstrumentType] ([Prefix],[Name]) VALUES ('ELog','E-Log')
INSERT INTO [Gidas].[Core].[InstrumentType] ([Prefix],[Name]) VALUES ('RLog','R-Log')
INSERT INTO [Gidas].[Core].[InstrumentType] ([Prefix],[Name]) VALUES ('RComm','R-Comm')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES (-1,'Inst
(n.e.)','Ave')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(0,'Nothing','Nothing')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES (1,'Inst','Ave')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES (2,'Min','Min')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES (3,'Ave','Ave')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES (4,'Max','Max')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(5,'StdDev','Nothing')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES (6,'Tot','Sum')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(7,'Duration','Sum')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(8,'PrevDir','AvgDirection')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(9,'RisDir','VectDirection')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(10,'RisVel','VectVel')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(11,'StdDevDir','Nothing')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(12,'CalmPerc','Ave')
INSERT INTO [Gidas].[Core].[ElabTypeList] ([IdElabType],[ElabTypeString],[ElabTypeToDo]) VALUES
(13,'ValidDataPerc','Ave')
INSERT INTO Core.AddIns (AddInCode, [Description], AttachedDate) VALUES ('AdminUser', 'Administrator Gidas
User',GETDATE())
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('14','PSBisect','AvgDirection')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('15','PSPrevDir','AvgDirection')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('16','PSPrevVel','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('17','PStdDevDir','Nothing')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('18','DirFreq1','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('19','DirFreq2','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('20','DirFreq3','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('21','DirFreq4','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('22','DirFreq5','Ave')

```

LSI LASTEM GIDAS – Database description

```

INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('23','DirFreq6','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('24','DirFreq7','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('25','DirFreq8','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('26','DirFreq9','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('27','DirFreq10','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('28','DirFreq11','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('29','DirFreq12','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('30','DirFreq13','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('31','DirFreq14','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('32','DirFreq15','Ave')
INSERT INTO Core.ElabTypeList (IdElabType,ElabTypeString, ElabTypeToDo) VALUES ('33','DirFreq16','Ave')

-----
-- (2.6.2) aggiunge il supporto a S-Log
-----
INSERT INTO [Gidas].[Core].[InstrumentType] ([Prefix],[Name]) VALUES ('SLog','S-Log')

-----
-- (2.9) aggiunge il supporto alle descrizioni
-----
/*inserisce la nuov sp che gestisce la configurazione */
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spInstrumentRegistry_Add291]') AND
type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentRegistry_Add291]
-- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @InstrumentPrefix varchar(15),
    @UserSerialNumber varchar(50),
    @Description varchar(200),
    @DbDescription varchar(200)
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Prima dell'inserimento verifica se esiste già il record
SELECT FactorySerialNumber FROM Core.InstrumentRegistry WHERE FactorySerialNumber=@FactorySerialNumber

-- Insert statements for procedure here
IF (@@ROWCOUNT <= 0)
BEGIN
INSERT INTO Core.InstrumentRegistry
(
    FactorySerialNumber,
    InstrumentPrefix,
    UserSerialNumber,
    Description,
    DbDescription
)
VALUES
(
    @FactorySerialNumber,
    @InstrumentPrefix,
    @UserSerialNumber,
    @Description,
    @DbDescription
)
END
END'
END

IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spInstrumentRegistry_ChangeDescription]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentRegistry_ChangeDescription]
-- Add the parameters for the stored procedure here
    @FactorySerialNumber varchar(20),
    @DbDescription varchar(200)
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

UPDATE Core.InstrumentRegistry SET DbDescription=@DbDescription
WHERE FactorySerialNumber=@FactorySerialNumber
END'
END

IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spInstrumentRegistry_ChangeDescriptionAndSerialNumber]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
CREATE PROCEDURE [Core].[spInstrumentRegistry_ChangeDescriptionAndSerialNumber]

```

```

-- Add the parameters for the stored procedure here
@FactorySerialNumber varchar(20),
@Description varchar(200),
@UserSerialNumber varchar(50)
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

UPDATE Core.InstrumentRegistry SET [Description]=@Description, UserSerialNumber= @UserSerialNumber

WHERE FactorySerialNumber=@FactorySerialNumber
END'
END

-----
-- (2.10) aggiunge la gestione del DbDescription per le UserConfigurationAttributes
----- */
/* aggiunge il nuovo campo alla tabella */
if not exists (select * from syscolumns where id=object_id('Core.UserConfigurationAttributes') and
name='DbDescription')
BEGIN
EXEC dbo.sp_executesql @statement = N'
ALTER TABLE Core.UserConfigurationAttributes ADD DbDescription varchar(200)'
END

/* modifica le sp che agiscono sulla tabella */
IF EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserConfigurationAttributes_GetAll]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
ALTER PROCEDURE [Core].[spUserConfigurationAttributes_GetAll]
-- Add the parameters for the stored procedure here
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- Insert statements for procedure here
SELECT InstrumentConfigurationID, Name, [Description],Code, DbDescription FROM
Core.UserConfigurationAttributes

END'
END

IF EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserConfigurationAttributes_Add]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
ALTER PROCEDURE [Core].[spUserConfigurationAttributes_Add]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationId int,
@Name nvarchar(100),
@Description nvarchar(200),
@Code nvarchar(25),
@DbDescription nvarchar(200)=null
AS
BEGIN
-- SET NOCOUNT ON added to prevent extra result sets from
-- interfering with SELECT statements.
SET NOCOUNT ON;

-- per i writer che non la supportano
if @DbDescription IS NULL
BEGIN
INSERT INTO Core.UserConfigurationAttributes (InstrumentConfigurationID, Name,
[Description],Code)
VALUES(@InstrumentConfigurationID, @Name, @Description,@Code)
RETURN
END

-- procedura aggiornata alla versione 2.9.3 del db
INSERT INTO Core.UserConfigurationAttributes (InstrumentConfigurationID, Name,
[Description],Code,DbDescription)
VALUES(@InstrumentConfigurationID, @Name, @Description,@Code,@DbDescription)

END
'
END

IF EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[Core].[spUserConfigurationAttributes_GetByConfigurationID]') AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
ALTER PROCEDURE [Core].[spUserConfigurationAttributes_GetByConfigurationID]
-- Add the parameters for the stored procedure here
@InstrumentConfigurationID int
AS

```

```

BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    SELECT      InstrumentConfigurationID,      Name,      [Description],Code,      DbDescription      FROM
Core.UserConfigurationAttributes
    WHERE InstrumentConfigurationID=@InstrumentConfigurationID

END
'
END

IF EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[Core].[spUserConfigurationAttributes_Update]')
AND type in (N'P', N'PC'))
BEGIN
EXEC dbo.sp_executesql @statement = N'
ALTER PROCEDURE [Core].[spUserConfigurationAttributes_Update]
    -- Add the parameters for the stored procedure here
    @InstrumentConfigurationID int,
    @Name nvarchar(100),
    @Description nvarchar(200),
    @Code nvarchar(25),
    @DbDescription nvarchar(200)=null

AS
BEGIN

    -- per i writer che non la supportano
    if @DbDescription IS NULL
    BEGIN
        UPDATE Core.UserConfigurationAttributes SET Name=@Name, [Description]=@Description, Code=@Code
        WHERE InstrumentConfigurationID=@InstrumentConfigurationID
        RETURN
    END

    -- procedura aggiornata alla versione 2.9.3 del db
    UPDATE Core.UserConfigurationAttributes SET Name=@Name, [Description]=@Description, Code=@Code,
    DbDescription=@DbDescription
    WHERE InstrumentConfigurationID=@InstrumentConfigurationID
END'
END

-----
-- Versione installazione
----- */
INSERT INTO [Gidas].[Core].[GidasVersion] ([Version],[ReleaseDate]) VALUES ('2.11.0' , '2013-03-04T00:00:00')
INSERT INTO Core.AddIns (AddInCode, [Description], AttachedDate) VALUES ('CreatedVers_2.11.0', 'Database creation
script v2.11.0',GETDATE())
GO

```

6.3. Users Login and Account:

```

-----
-- Create database logins
-----
IF NOT EXISTS (SELECT * FROM syslogins WHERE [name]='LSI.Gidas.Reader')
BEGIN
    CREATE LOGIN [LSI.Gidas.Reader] WITH PASSWORD=N'redaer_6', DEFAULT_DATABASE=[Gidas],
    DEFAULT_LANGUAGE=[us_english], CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
END
GO
IF NOT EXISTS (SELECT * FROM syslogins WHERE [name]='LSI.Gidas.Writer')
BEGIN
    CREATE LOGIN [LSI.Gidas.Writer] WITH PASSWORD=N'retirw_6', DEFAULT_DATABASE=[Gidas],
    DEFAULT_LANGUAGE=[us_english], CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
END
GO
IF NOT EXISTS (SELECT * FROM syslogins WHERE [name]='LSI.Gidas.Administrator')
BEGIN
    CREATE LOGIN [LSI.Gidas.Administrator] WITH PASSWORD=N'sadig_admin',
    DEFAULT_DATABASE=[Gidas], DEFAULT_LANGUAGE=[us_english], CHECK_EXPIRATION=OFF, CHECK_POLICY=OFF
END
GO

-----
-- Delete and recreate Database Users
-----
USE [Gidas]

```

LSI LASTEM GIDAS – Database description

```
IF EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Writer')
    DROP USER [LSI.Gidas.Writer]
GO
IF EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Reader')
    DROP USER [LSI.Gidas.Reader]
GO
IF EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Administrator')
    DROP USER [LSI.Gidas.Administrator]
GO

IF NOT EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Writer')
CREATE USER [LSI.Gidas.Writer] FOR LOGIN [LSI.Gidas.Writer] WITH DEFAULT_SCHEMA=[Core]
GO
IF NOT EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Reader')
CREATE USER [LSI.Gidas.Reader] FOR LOGIN [LSI.Gidas.Reader] WITH DEFAULT_SCHEMA=[Core]
GO
IF NOT EXISTS (SELECT * FROM sys.database_principals WHERE name = N'LSI.Gidas.Administrator')
CREATE USER [LSI.Gidas.Administrator] FOR LOGIN [LSI.Gidas.Administrator] WITH DEFAULT_SCHEMA=[Core]
GO
GRANT EXECUTE, INSERT, DELETE, SELECT, UPDATE ON SCHEMA :: Core TO [LSI.Gidas.Writer]
GO
GRANT EXECUTE, INSERT, DELETE, SELECT, UPDATE ON SCHEMA :: Viewer TO [LSI.Gidas.Writer]
GO
GRANT SELECT ON SCHEMA :: Core TO [LSI.Gidas.Reader]
GO
GRANT SELECT ON SCHEMA :: Viewer TO [LSI.Gidas.Reader]
GO
EXEC sp_addrolemember N'db_owner', N'LSI.Gidas.Administrator'
GO
```