Water Supply Giswater 2.x data model

Documents

Document table used by the document management module

0&M

Operation & management tables used to integrate information from other collecting data systems

Llegend

Kernel

Tables acting as core tables. These are topology tables (node/arc/connec/element) with catalogs, sector and dma tables.

Add info

Tables used to store add info of features

Other Tables

Hydraulic model

Tables to store all data hydraulic model needs.
Input data and result data to enable the full
comunication with the EPA software

Real Time

Tables to enable the real time integration data from SCADA, CRM or any database the system needs.

Water Supply Giswater 2.x data model **Nomenclator issues** man_tank **Builder Catalog** Soil Catalog Work Catalog Owner Catalog Result tables of analysis processes Manhole cat_soil cat builder cat work cat owner Result tables of audit processes Users Source cat_ Catalog tables dma (management) Waterwell config Tables to store sytem/user variables sector (hydraulics) man waterwell db_cat Dictionary of tables, views, rows... Junction Polygon man_junction doc_ Tables used by the document Polygon management tool Reduction man_reduction element_Table used by the element Node material Catalog **Node Catalog Node documents Node Type** Node management tool **Valve** node type cat_mat_node cat_node Doc type node man valve event Tables used to integrate O&M, using a doc_type Hydrant strategy of dinamic datamodel man_hydrant **Arc documents** External information tables (ERP, Pump SCADA, carto information.... man_pump Documents doc Tables used to store all the **Connec documents** Filter information used on EPA software doc_x_connec man filter Tables used to store information about Meter features not stored on node/arc tables Register Tables used by the master plan man_register Arc material Catalog Arc Catalog Expansion tank Tables to integrate db prices from cat_mat_arc arc type cat arc arc man_expansiontank Flexunion Tables to store the results of the man_flexunion hydraulic modelling from EPA software **Net Sampleoint Events** value_ Domain value tables (acting as a man_netsamplepoint om_visit_event Node visits Connec catalog tables) Connec Type Connec Catalog cat_connec connec Net element man_netelement Visit om_visit Net wjoin Arc visits link man_netwjoin **Event parameter** vnode varc om_visit_parameter Connec visits man varc om_visit_x_connec Pipe **Element Type Element material Catalog Element Catalog Element** Domain value tables **Audit tables** Event type cat_mat_element cat_element element om_visit_parameter_type Greentap Management tables **Analysis tables** man_greentap **Fountain** man_fountain Streeter Master plan tables tank Juction reservoir valve pump inp_pipe inp_pump man_tap Wjoin Config **Database catalog Result topology adaptors Results catalog** Explitation Node results Arc results System Sector selector State selector **Result selector** inp_selector_state ----RTC DMA Parameters RTC demand Rules **Custom demand** Controls ext_rtc_scada_dma_period rtc_inp_demand Quality Reactions Sources Mixing **Period catalog** Hydrometer aggregated data Hydrometer lastest value inp_mixing ext_rtc_hydrometer_data rtc_cat_period ext_rtc_hydrometer_value Scada aggregated data Scada lastest value ext_rtc_scada_data ext_rtc_scada_value Options Times Report Project inp_times inp_project_id Hydrometer- connec Curves **Patterns Energy parameters Emitter** rtc_hydrometer_x_connec inp_curve (id) inp_emitter Scada Node Scada Catalog Hydrometer Catalog cat_hydrometer rtc_scada_node cat_scada **EPA** arc type EPA node type inp_type_arc inp_type_node SCADA data Hydrometer data (table or view from CRM) table or view from SCADA)

<u>Urban Drainage & Sewerage Giswater 2.x data model</u>

Documents

Document table used by the document management module

0&M

Operation & management tables used to integrate information from other collecting data systems

Kernel

Tables acting as core tables. These are topology tables

(node/arc/connec/gully/element) with catalogs, sector, dma tables.

Add

Tables used to store add info of features

Llegend

info

Other **Tables**

Hydraulic model

Tables to store all data hydraulic model needs. Input data and result data to enable the full comunication with the EPA software

Real Time

Tables to enable the real time integration data from SCADA, CRM or any database the system needs.

<u>Urban Drainage & Sewerage Giswater 2.x data model</u> **Nomenclator issues** Result tables of analysis processes Manhole **Builder Catalog** Soil Catalog **Work Catalog** Owner Catalog cat_soil cat_builder cat_work cat_owner audit_ Result tables of audit processes Wjump Catalog tables dma (management) Junction config Tables to store sytem/user variables db_cat Dictionary of tables, views, rows... Outfall sector (hydraulics) **Node documents** Node Type Doc type man_outfall doc_ Tables used by the document Netinit management tool Node **Node material Catalog Node Catalog** man_netinit cat_mat_node cat_node node **Arc documents** element_Table used by the element **Valve** management tool man valve event Tables used to integrate O&M, using a Documents strategy of dinamic datamodel Wwtp Gully documents Polygon man_wwtp External information tables (ERP, Storage polygon SCADA, carto information.... man_storage Arc material Catalog **Arc Catalog** Connec documents Tables used to store all the cat_mat_arc cat_arc **Netgully** information used on EPA software man_netgully Chamber Tables used to store information about Arc arc_type features not stored on node/arc tables man_chamber arc Tables used by the master plan Varc **Grate catalog** Tables to integrate db prices from Conduit **Node visits** cat_grate Gully **Events** om_visit_x_node man conduit om_visit_event gully Tables to store the results of the hydraulic modelling from EPA software man_siphon **Arc visits** Visit Waccel value_ Domain value tables (acting as a om_visit **Connec Catalog** Connec type catalog tables) cat_connec Connec **Gully visits Event parameter** connec om_visit_parameter om_visit_x_gully link **Connec visits** vnode Event type **Element Type** Element **Element material Catalog Element Catalog** Domain value tables **Audit tables** cat mat element cat_element element Domain value tables **Analysis tables** Streeter Master plan tables Conduit Orifice Virtual Config **Database catalog** inp_weir / inp_orifice inp_conduit inp_orifice inp_outlet System **Explitation Arc results** Results catalog **RTC DMA Parameters Sector selector Result selector State selector** ext_rtc_scada_dma_period inp_selector_sector inp_selector_state rpt_selector_result **Options Temperature** Lid control Loading Buildup Hydrometer aggregated data Hydrometer lastest value inp_lidcontrol (lidusage inp_rules ext_rtc_hydrometer_data ext_rtc_hydrometer_value Scada aggregated data Scada lastest value Inflows **Aquifers** Controls **Pollutants** Washoff **DWF** ext_rtc_scada_data ext rtc scada value Period catalog inp_inflows inp_dwf inp_aquifer inp_controls inp_reactions_el (gl) inp_sources rtc_cat_period **Groundwater** Landuses Hydrometer- connec RDII **Treatment** Pattern **Timeseries** rtc_hydrometer_x_connec inp_timeseries (id) **Hydrometer Catalog** Scada Node Scada Catalog cat_hydrometer rtc_scada_node cat_scada Curve Snowmelt **Evaporation** Coverages **Energy parameters Transects** inp_energy_el (gl) inp_transects **EPA** node type **SCADA** data **EPA** arc type Hydrometer data table or view from CRM) inp_type_arc able or view from SCADA inp_type_node