category	Master_service	Service_intent_or_order	Service_event
identifier	universal_service_id service_alternate_id ~~universal_service_identifier_coding_system_nm~~ ~~universal_service_identifier_nm~~ ~~service_alternate_identifier_coding_system_nm~~ ~~service_alternate_identifier_nm~~	order_id placer_order_id filler_order_id secondary_identification_txt	filler_id prescription_id
name	service_primary_nm service_alternate_nm service_alternate_name_use_cd		
classification	service_type_cd observation_id_suffix_txt nature_of_service_cd		confirmation_status_cd universal_service_identifier_suffix_txt
description	service_desc		service_desc service_event_desc
method	method_cd method_desc instrument_identifier_nm instrument_identifier_coding_system_nm imaging_measurement_modality_cd portable_device_ind		observation_method_cd
target	target_of_service_cd target_anatomic_site_cd	target_of_service_cd service_body_site_cd service_body_site_modifier_cd	body_site_cd
pre-condition	service_requirement_desc patient_preparation_desc challenge_information_txt procedure_medication_cd service_contraindication_cd		
reason		indication_cd ~~reason_for_study_cd~~	indication_cd (give_indication_cd)
state	orderable_service_ind	status_cd status_reason_cd intent_or_order_cd status_dttm	status_cd observation_status_cd status_reason_cd filler_order_status_dttm observation_status_dttm specimen_received_dttm
misc times	last_update_dttm		
timing	incompatible_change_dttm effective_dt	order_placed_dttm order_effective_dttm	scheduled_start_dttm begin_dttm end_dttm (system_entry_dttm)
	standard_time_to_perform_dttm processing_time_qty typical_turnaround_time_qty quantitytiming_qt join_cd	expected_performance_time_qty order_quantitytiming_qt join_cd end_condition_cd (order_revision_quantitytiming_qt)	(give_quantitytiming_qt)
scheduling	service_performance_schedule_cd preferred_scheduling_method_txt allowable_processing_priority_cd allowable_reporting_priority_cd	reporting_priority_cd	
"security" authentication confidentiality	confidentiality_cd		attestation_dttm attestation_due_dt confidential_ind patient_sensitivity_cd user_defined_access_check_txt
authorization forensics	required_credentials_desc consent_required_cd		consent_cd declined_ind
ethics		rejection_reason_cd verification_required_ind (rejection_reason_txt) (needs_human_review_ind)	individual_awareness_cd family_awareness_txt (needs_human_review_ind) (needs_human_review_ind) (substance_refusal_reason_cd)
billing	fee_amt billing_reference_txt when_to_charge_cd	charge_type_cd when_to_charge_cd when_to_charge_dttm	charge_to_practice_amt charge_to_practice_cd
misc: lists transaction mgmt. routing, etc.	report_display_order_txt preferred_ordering_method_txt fixed_canned_message_cd	response_requested_cd entering_device_cd clarification_phon report_results_to_phon echo_back_txt	billing_priority_nbr

Transport (*a hidden service type!*)
planned_patient_transport_cd
transport_arranged_ind
transport_arrangement_responsibility_cd
transport_mode_cd
escort_required_ind

kind_of_quantity_observed_cd
point_versus_interval_cd
interpretation_considerations_desc
factors_that_may_affect_observation_desc

Master_service_relationship	Service_intent_or_order_relationship	Service_event_relationship
relationship_type_cd quantitytiming_qt	relationship_type_cd quantitytiming_qt	relationship_type_cd

value

reflex_testing_trigger_rules_desc
constraint_txt
reflex_testing_trigger_rules_desc
constraint_txt
observation-sub-id

Master_observation_service
permitted_data_type_cd

Observation_intent_or_order

Clinical_observation
observation_value_txt
~~value_type_cd~~
~~value_units_cd~~
~~probability_amt~~
clinically_relevant_begin_dttm
clinically_relevant_end_dttm

There is a whole bunch of descriptors for numeric and coded values. Most of this could be fit into the "value" attribute (as usual as the set of allowables.) Reference ranges can be much more generally treated using links between population characteristics and result values of range types. I have yet to see the system that really uses "delta-check" values, which are weird estimates of what change constitutes a "significant" difference. Those could be removed.

abnormal_result_ind
references_range_txt
relevant_clinical_information_txt
nature_of_abnormal_testing_cd
last_observed_normal_values_dttm

specimen
specimen_required_ind
~~specimen_action_cd~~
~~patient_hazard_cd~~

mind the classes!

R.I.P.
~~instrument_id~~
~~processing_time_qty~~
~~typical_turnaround_time_qty~~
reporting_priority_cd
observation-sub-id
universal_service_identifier_suffix_txt
observation_method_cd
user_defined_access_check_txt

identifier

Master_treatment_service

Treatment_intent_or_order

Treatment_service
Treatment_intent_or_order_revision

Treatment_service_event
prescription_id
prescription_id

Treatment_service_dispense

Treatment_service_give

Treatment_service_administration

classifier
drug_category_cd
pharmaceutical_class_cd
therapeutic_class_cd

substance_manufacturer_cd
administration_desc

route
medication_form_cd
dosage_form_cd
route_cd
route_cd
ordered_administration_method_cd
order_revision_PTrout
PTrout
body_site_cd

dosage
dosage_txt

instructions
providers_treatment_instruction_txt
supplier_special_dispensing_instruction_cd
providers_administration_instruction_cd
suppliers_dispensing_instruction_cd
supplier_special_administration_instruction_cd
suppliers_special_dispensing_instruction_cd

strength
requested_give_strength_amt
strength_qty
PTcomp
order_revision_PTcomp

amount
amount_qty
~~min_give_amt~~
~~max_give_amt~~
~~min_give_amt~~
~~max_give_amt~~

rate
requested_give_rate_amt
give_rate_amt
give_per_time_unit_cd
order_revision_quantitytiming_qt
give_rate_amt
give_per_time_unit_cd
give_quantitytiming_qt
administered_rate_txt

total_daily_dose_amt
~~total_daily_dose_cd~~
total_daily_dose_amt

administration_counter
completion_status_cd

refills
refills_remaining_qty
refills_allowed_qty
refills_doses_dispensed_qty
last_refilled_dttm
refills_remaining_qty

dispensing

This whole dispensing stuff looks an awful lot like there is *a hidden class* in here. The class being a representative of the dispensed container, just like the specimen or supply products (material) is such a class. At some point we need to come to grips with **material things.**

substance_lot_number_txt
expiration_dttm

earliest_dispense_dt
dispense_package_method_cd
dispense_package_size_amt
dispense_package_method_cd
dispense_package_size_amt

substitutions
substitution_allowed_ind
substitution_status_cd
substitution_cd
substitution_status_cd
substitution_cd
substitution_cd

junkyard
dea_level_cd
non_form_authorized_ind
formulary_status_cd
verification_required_ind
needs_human_review_ind
rejection_reason_txt
needs_human_review_ind
needs_human_review_ind
substance_refusal_reason_cd
system_entry_dttm
indication_cd
give_indication_cd
notes_txt