



Preliminary Audit & Quotation

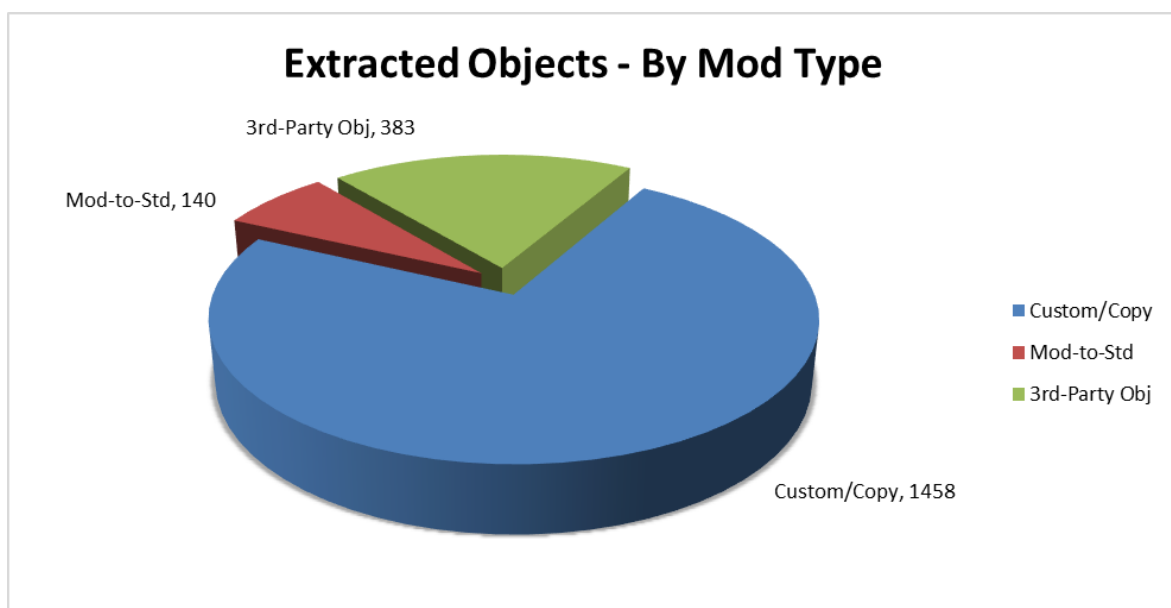
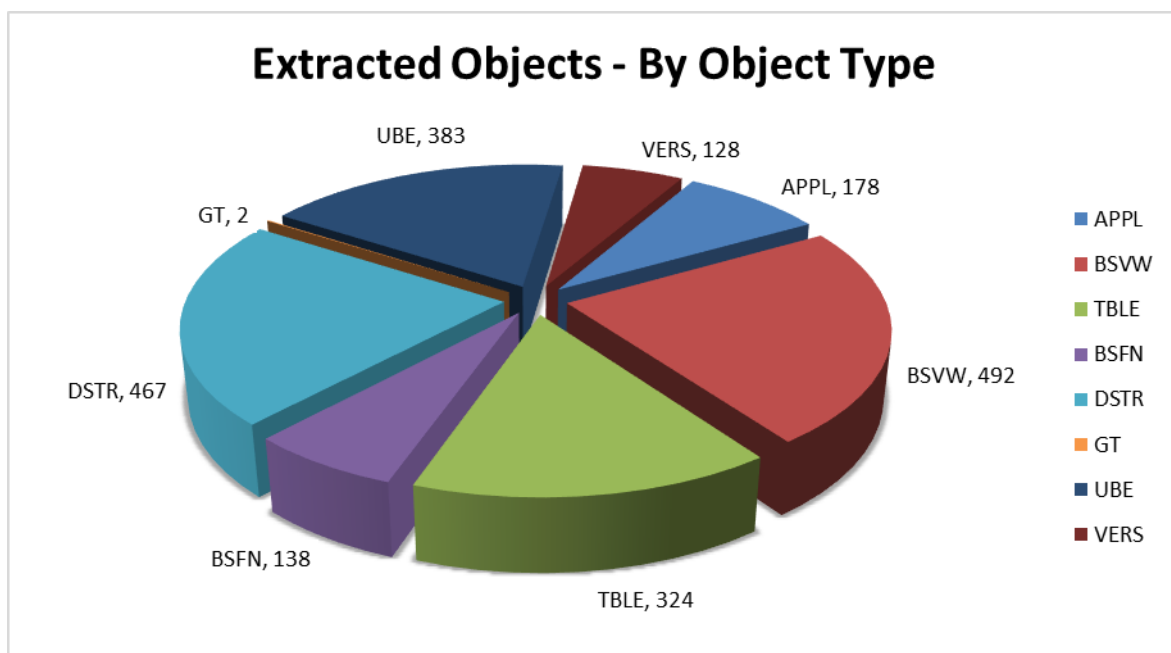
Dimension Analyze Service

Executive Summary

Dimension Extract was run successfully over your PD910 and PS910 environments. Outlined below are the preliminary insights gathered.

1,984 Objects identified as modified

128 Custom UBE versions containing potential Version Overrides



Preliminary Audit Results

ISSUE	COUNT	COMMENTS
Third-party objects	383	Includes 3 rd party objects & versions.
Objects with unusual naming conventions	6	Incorrect prefix character – makes an object appear to be of a different Object Type
Standard-JDE objects expected in PRIST, but not found	1	Possible ESU-level difference
Objects that should probably be classified as "copies of standard"	61	These object types tend to affect upgrade times significantly if not planned correctly. At least 32 are APPL, BSFN & UBE object types. At least 14 of those are sets of multiples – that is, multiple copies of the same std-JDE object and as such have a good potential for rationalization/consolidation at upgrade.
Copies of custom objects	18	At least 7 are APPL, BSFN & UBE object types. All represent multiple copies of a custom object, and at least one is a set of multiples of 3 or more – and as such have potential for rationalisation/consolidation at upgrade.
Tables with custom Table ER (trigger) logic	7	4 std-JDE (with mods) and 3 custom TBLEs.
Custom UBE's Versions that have not run for > 18 months	48	Over 40 separate UBE templates Note – we will consider versions containing version-overrides in another category. If found, they will enable greater savings of custom UBEs.
Modified std-JDE UBEs with Custom Versions that have not run for > 18 months	15	Over 11 UBEs. We will consider versions containing version-overrides in another category. If found, they will enable greater savings of custom UBEs. Note 2 – some objects in this category will prove not to be modified during the Audit.
Custom-version overrides to ER code, layout and/or DB-Output	128	These custom versions containing overrides exist over 60 separate custom or std UBEs.

Unexpected code differences found between PD920 and PRIST – std-JDE modified APPL, BSFN & UBE objects	15	Code diffs may be ESU-sourced (mismatching), paper fix or genuine modifications with no “mod marks”, or a combination of all three. IMPORTANT: This number is also expected to increase once all Copies-of-Std are correctly identified.
Test/Hack Objects	8	Exist with unusual “non-standard” naming conventions, size or functionality that may be removed after further investigation. Does not include 3 rd -party objects.
Objects considered potentially “modified” by OL, but do not appear to contain any modifications	131	

We have reviewed the summary & log files from the Dimension Extract and can report our initial, high-level findings.

Additional analysis will be required to arrive at the ‘Optimum List’ of upgrade objects. We have outlined six areas in particular that will require attention or that are points of interest.

- 1) There should be a review of your “copies of standard” objects. Around 137 custom objects have been identified as potential copies of standard-JDE objects and in order to perform like-for-like comparisons, if these are found to be copies, the JDE based-on objects may need extraction from PS910 at a later date (if not already extracted). Further, detailed analysis will be required to finalise the list of copies.
Copies-of-Std are typically the most complex mod-type to upgrade, so it is very important that these objects are correctly categorized.
- 2) Some minor ESU level differences exist between PD910 and PS910. It is, however, not serious enough to prevent next steps.
- 3) Your PD910 environment contains 123 UBE versions flagged as having some form of “Version Override”. Subsequent analysis to consider these in detail to eliminate unused versions, versions that are copies of copies, and versions that are flagged as overridden but do not contain any modifications per se.
- 4) Modifications/enhancements to 3rd-party objects (if any) remain out of scope, however they can be included on a case-by-case / T&M basis if required.
- 5) A number of modifications could be achieved using UDO functionality.
- 6) Your Data Dictionary will be analyzed during subsequent services, if selected.

Return on your investment (ROI)

Each Dimension Analyze customer has managed to recoup the costs of our service and more through the savings we identify. Our service ultimately saves money, reduces risk, provides detailed data for accurate planning, and provides compelling evidence to back up your business case.

Early indications suggest we should be able to reduce your Initial List of objects by approximately **42%**. This includes approx. 383 third-party objects, but also UBEs and versions that are considered unused/old, objects flagged as modified that are not, hack objects and orphaned objects. Excluding version overrides, the Initial List contains approximately 140 mods-to-standard and approximately 61 copies of standard (to be confirmed by Audit).

ROI – Estimated Tangible Return

Saving Category	Potential Savings (Days)
Removal of UBEs/Versions that have not run in PD for 18 months or more	98.6 ①
Saved testing time of non-used UBE's/Versions	56.0 ③
Removal of Test Objects	8.9 ①
Removal of objects with no differences	15.8 ①
Removal of Orphaned Objects	4.1 ①
Identification of 'Design Time' Version Overrides	6.9 ②
TOTAL	190.3 DAYS

① Assumptions regarding numbers of objects chosen for elimination and average upgrade duration per object have been made. These savings represent the time saved for a developer upgrading objects **that do not need to be upgraded**. The upgrading of these objects will add zero value to the project and the developer's time could be put to far better use within the upgrade project. Results from the PD environment may differ.

② If you were not aware that you had Version Overrides, the testing phase would uncover this as the tester would not be getting the same results as they would expect in the from release. A developer would have to spend time investigating why they are not seeing the same results only to find that a version override has not been upgraded to the target release. This could happen many times and use up a developer's valuable time. We believe that it is much better to be aware of these situations up front so that realistic project timescales can be set. DWS have assumed Version Overrides are not created directly within the PROD environment.

③ As we have now identified what reports/versions are not being used, we can also assume that these UBE/Versions **do not need to be tested**. This will save the project team additional time as they will not be inadvertently testing UBE's/Versions that ultimately are not being used. DWS has allocated a modest 2-hour average per UBE in saved testing time.

ROI – Intangible Benefits

- Identification of objects missing from PROD and UBEs with no “Last Run Date”.
- Identification of objects missing from PRIST.
- Identification of mis-named objects – opportunity to make corrections.
- Identification of 3rd-Party-sourced objects – enables you to seek improvements from vendor under target-image ESU level if applicable.
- Identification of Client-Only Functions.
- Identification of Copies-of-Standard objects.
- Identification of Version Overrides. These can be extremely difficult to achieve without Dimension. If you were not aware that you had Version Overrides, the testing phase would uncover this as the tester gets unexpected results. A developer would need to spend time investigating why they are not seeing the same results only to find that a version override had not been upgraded to the target-image ESU level. This could happen many times and use up a developer’s valuable time. We believe that it is much better to be aware of these situations up front so that realistic project timescales can be set
- Identification of Tables containing modified “Trigger” logic.
- Upgrade Estimate assists prioritizing critical path, loads and resource-scheduling.
- Results presented for Board/Steering Committee approval / ease of consumption by Management.
- Reduced “mod-footprint” going forward.
- Simpler, cleaner, cheaper & less error-prone upgrade. 1st-time-right ratio increase.
- Potential to leverage results using Dimension Professional tools.

Our guarantee to our clients

- Our Dimension Analyze services are the most complete available and will always deliver high value for your money
- At every stage, we will provide you with a fixed price for our services
- We will always ensure a precise audit of your E1 environment – right down to a pixel movement level of detail

We are so confident in the results of our Dimension Analyze service that we will provide you a fixed-price fixed-timeline Dimension Professional upgrade retrofit development project proposal to get you from your current E910 release to E920 (at your ESU-level of choice). This enables you to de-risk that particular component of the wider upgrade project.

Service Summary

Audit Service:

The Audit automatically looks at the entire spec file of every object to precisely identify all modifications within an E1 environment. This is designed to identify anomalies within your modified system and to reduce your “modified objects” list to the most efficient, definitive list possible. The Audit will identify all objects containing modifications and differences from Pristine.

The deliverables of the Audit include:

- An “Optimum List” of objects to be retained
- Availability and scheduling of certified Oracle E1 Development consultants
- Audit Report, including:
 - Summary of objects
 - Breakdown of objects by enhancement type & object type.
 - Opportunities for object retirement
 - Areas of Concern / Further Analysis / Recommendations
- Supporting spreadsheets:
 - Initial List of objects
 - All anomalies found
 - Last Run Dates for UBE's & Version Overrides
 - Standard DD items that have been changed
 - Orphaned Objects
 - Full Inclusive Object List
- Technical Project Management – regular updates communicated personally.
- Web-ex style walkthrough session to discuss results of our findings.

This part of the service is a collaborative exercise. It aims to categorise and account for every object identified in the Initial List. DWS will rely on the capabilities of the Dimension tool, and the experience of our senior developer to interpret the results. We will also seek the cooperation of knowledgeable staff who are familiar with the modified environment and who can help us with any questions we may have in order to arrive at the Optimum List.

Value Proposition

- Caters for releases B7333 to E9.2.
- Automatically identifies reports and versions that have not run for more than 18 months or a user defined period of time

- Automatically identifies 'design' time changes to Versions. Standard JDE does not provide this capability. If left unidentified, this can have a significant impact on testing at the higher release level as the testers would not be seeing the results they expected as per original release
- Automatically identifies every modification in your E1 system over and above standard JDE enquiries and reports
- Automatically identifies all objects that are flagged by JDE as modified, when in fact they are not modified at all
- Automatically identifies objects that are actually modified, but have not been flagged as modified by JDE
- Helps to identify objects that were copied from a standard JDE object and identifies which standard JDE object they were copied from
- Identifies ESU code differences between the customer's Prod and Prist environments
- Automatically identifies and reports on all Client Only Business
- Automatically identify objects with unusual or non-standard naming conventions
- Clearly identifies 'hack' objects & 3rd-party objects as well
- Automatically determine and remove orphaned objects (objects not called by other objects)
- Service can be delivered remotely – no requirement for on-site visit

Estimate Service:

The Estimate Service provides development effort estimates to retrofit the "Optimum List" of objects. We scan your modified objects at a precise line-by-line object-specification level of detail, calculating the original development effort needed to create each modification. This estimate uses DWS's proven development-estimation methodologies and provides a sizing of each of your objects.

Once the original development estimate is achieved, further "backend" processes calculate the effort to upgrade your objects to your chosen "to-release". The upgrade estimate is calculated according to enhancement type (custom, mod-to-std, copy-of-std & pure custom), object type, code type and complexity. Factors are employed to weight the upgrade estimate according to various hierarchies relating to the complexity factors of upgrading from release X to release Y.

The deliverables of the Estimate Service include:

- User Guide for Dimension Analyze
- Availability and scheduling of certified Oracle E1 Development consultants
- Audit Report including:
 - Anomalies found
 - Summary of objects
 - Breakdown of objects by enhancement type, object type, original estimated development effort & upgrade effort
 - Client-Only BSFN list
 - Last Run Dates for UBEs

- Estimated Original Development Effort – tables & graphs
- Upgrade Effort – tables & graphs
- Areas of Concern / Further Analysis / Recommendations
- Supporting spreadsheets:
 - Last Used UBEs
 - Full Inclusive Object List
 - Version Override Details
 - Original Development & Upgrade Times by Object
 - Technical Project Management – regular updates communicated personally.
 - Web-ex style walkthrough session or face-to-face meeting to discuss results
 - Fixed price upgrade proposal
- Technical Project Management – regular updates communicated personally.
- Web-ex style walkthrough session to discuss results of Dimension findings.
- Fixed-price fixed-timeline upgrade retrofit project proposal

The primary aim of this part of the service is to present the customer with an estimate in man days. This outlines the effort required to upgrade the agreed list of upgrade objects (as per Audit service) from the current release of E1 to the newer release of E1.

Value Proposition

- Caters for releases E9.0 to E9.2
- Provides an estimate in days/hours/minutes for every single modified object to get it from the current release to the target release of choice
- Automatically calculates the original effort to create your existing modifications
- Although you are not tied to DWS for the upgrade, we are so confident in our service, we are willing to fix price the actual upgrade should you wish us to pitch for the work
- The estimate can be broken down as per your requirements. Examples could be to split by functional area, system code or by unit of time.
- We provide a detailed report of our findings along with recommendations and risk factors
- Provide analysis that allows customer to decide whether to retain an object as a copy or move back to making changes to standard again
- Automatic ability to ignore minor pixel-movements of report/screen fields
- Automatic ability to factor in JDE's Net Change to JDE-std objects called by custom code
- Determine "standalone" objects that should not need upgrading – enabling testing staff to begin immediate functional testing
- The estimate will automatically take into account the base object level differences between the standard source and target releases
- Service can be delivered remotely – no requirement for on-site visit

APPENDIX A - Dimension Analyze Deliverables

DELIVERABLE	EXTRACT	AUDIT	ESTIMATE
Extract software & User Guide	X		
Availability of Senior, certified E1 developer	X		
Preliminary Audit Report & Quotation	X		
Report including:			
ALL anomalies found		X	
Summary of modified objects (can be broken down by customer preference)		X	
Breakdown of objects by enhancement type, object type, original estimated development effort & upgrade effort			X
Client only business function list		X	
'Last Run' dates for modified UBE's and versions		X	
Estimated original development effort – tables and graphs			X
Upgrade effort – tables and graphs			X
Areas of concern/risk factors/recommendations		X	X
Supporting spreadsheets including:			
Last Used UBE's and version names		X	
Data Dictionary items that have been changed and nature of change - not possible in standard JDE		X	
List of all Orphaned objects (no obvious parent object – no need to upgrade) – not possible in standard JDE		X	
'Optimum' list of upgrade objects (agreed in Audit phase with customer)		X	
Versions with 'Design' override named (not possible in standard JDE)		X	
Original development & upgrade times by object			X
Technical Project Management – regular updates communicated personally		X	
Face to face or webinar style walkthrough to discuss results of Dimension findings		X	
Fixed price upgrade proposal			X