**From:** McNamara, James (SAIC)   
**Sent:** Monday, January 30, 2012 1:33 PM  
**To:** Bhagavan, Vivek (SAIC); Bloyer III, Donald R. (SAIC)  
**Cc:** Kadow, Mike (CACI); McNamara, James (SAIC); Sharp, Paul (SAIC); Shetler, Bob (SAIC); Witkop, Robert (SAIC)  
**Subject:** RE: Confirmation from SME linking a Lab Result back to an Order

Vivek/Rick,

We moved the code rather quickly SQA for the Lab Results/Order utility.  Below is the logic the stored procedure uses to find the Order that is linked to the Lab Result for a given patient.  It is imperative that we get confirmation back from the SME before this utility is pushed to the production systems.  Can you please forward this email to the SME that either you or the VHIM team has been working with?  The SME should note that we are starting from the Lab Result and tying it back to the Order.  That is a key point to why we built the logic the way it is outline below.

The HDR Cache team has built a utility for CDS that will link a CHEM\_HEM (File 63.04) results to a patient order (File 100).  Given parameters are Patient DFN and the CHEMHEM node/index value.  The following steps provide how this is being done.  However, the cache team needs clarification from a SME to make sure our logic is correct, specifically steps 3 where the cache team has highlighted a question concerning which index to loop through to find all the Orders for a given DFN.

Logic for SQL Proc: class method VISTA.HDSI.HDSREPLabUtil1.**getOrderDetail(DFN As** [**%String**](http://localhost:57772/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=hdrhx&CLASSNAME=%25Library.String)**, LRChemId As** [**%String**](http://localhost:57772/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=hdrhx&CLASSNAME=%25Library.String)**)** as [%String](http://localhost:57772/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=hdrhx&CLASSNAME=%25Library.String) [ SQLProc ]

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| Step 1. Get Index/node value from file 63.04 | ^LR(19,"CH",7009081.887161,0)="2990917.112839^1^2990917.113027^11733^72^CH 0917 |
| Step 2. Get Patient DFN | THE DFN is required parameter so it will be provided.  In this example “1” is the DFN |
| Step 3. Search ALL Patient Orders in the Order file by using the “Object of Order”  field indexes for a given DFN | There are several indexes built of the “Object of Order” field.  We chose to use the “AW” index based on RPC call “ORQOR LIST” (Routine:LIST^ORQOR1).  Following the RPC code it calls LOOP^ORQ11 for “All Orders” which calls tag “AW” and loops through the “AW” index.   However,  we noticed there is a line tag in that routine AWIN which loops loop through the “ACT” index.  The comment line on this tags says “;Jump in here to add active orders to AW context”.    Furthermore, when looking at the all the indexes, it appears the “AR” index is the most populated index.  **So the question is, what index or combination of indexes should be to used to loop through “ALL” the Orders for a given Patient DFN?**  Looping thru the “AW” index for patient DFN “1”  ^OR(100,"AW","1;DPT(",6,2990121.1139,9114)=""  ^OR(100,"AW","1;DPT(",6,2990310.102459,9572)=""  ^OR(100,"AW","1;DPT(",6,2990917.112839,10533)=""  ^OR(100,"AW","1;DPT(",6,2990917.113341,10534)=""  ^OR(100,"AW","1;DPT(",6,3000105.082507,11667)="" |
| Step 4. Compare the contents of “Package Reference” (Node 4) to that of the INDEX node value in file 63.04, if the highlighted values match then this is the Order that is linked to the Lab Result. | ^OR(100,10533,4)="1209;2990917;2;CH;7009081.887161"   = ^LR(19,"CH",7009081.887161,0) |

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