Sample processing policies of the ECIR Consulting solution

Content

[1. ECIR client Improvements validated in 2014 2](#_Toc400019376)

[1.1. Processing program: CRM, BADI ORDER\_SAVE, multiple instantiations 2](#_Toc400019377)

[1.2. Processing program: ECC6, USER\_EXIT 3](#_Toc400019378)

[1.3. Processing program: ECC6, CUSTOMER-FUNCTION 4](#_Toc400019379)

[1.4. Processing program: ECC6 BADI with single instance 5](#_Toc400019380)

[1.5. Processing program: ECC6, ENHANCEMENT POINT 6](#_Toc400019381)

[1.6. Processing program: ECC6, INPUT INTERFACES 7](#_Toc400019382)

[1.7. Processing program: ECC6, OUTPUT INTERFACES 8](#_Toc400019383)

[1.8. Processing program: MDG, WORKFLOW 9](#_Toc400019384)

[1.9. Processing program: specific authorizations 9](#_Toc400019385)

[1.10. Processing program: ECC6 / CRM, pricing management 11](#_Toc400019386)

[1.11. Processing program: Printing 12](#_Toc400019387)

[1.12. Processing treatment: BI, extractors 13](#_Toc400019388)

[2. History of the conception and development of the solution 14](#_Toc400019389)

# ECIR client Improvements validated in 2014

## Processing program: CRM, BADI ORDER\_SAVE, multiple instantiations

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| Object example : | | Processing the BADI ORDER\_SAVE |
| Current constraint: | | |
| BADI is outlined in multiple instantiations but has no filtering capacity.  Therefore, all BADI instances start running at every request of the program containing them.  If this BADI has 70 instances, they shall all be activated for every user | | |
| ECIR Consulting Optimization | | |
| Significant decrease in the number of BADI instances  Memory management is improved  Functions calls are limited, processing time is enhanced  In addition, processing modifications are optimized, improved and traceable over time.  Finally, non-regression tests are limited. | | |
| Remark : | ALL BADI, regardless of the business system (ECC6, SRM, MDG…) with such constraint can benefit from this optimization. | |
| Program example | ECIR Consulting provides a program and a control policy in order to monitor the concept and the benefits obtained. | |

Specific case of action profiles:

* Action profiles are objects for the setting up of SAP CRM commercial documents.
* They focus on the use of BADI
* These BADI have filtering capacities and processing requirements.

ECIR Consulting Answer:

* It is possible to leave changes unaddressed
* In referencing management, it is possible to use the concept of a processing policy to provide traceability. This action will improve developments in their life cycle.

## Processing program: ECC6, USER\_EXIT

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| Object example : | | USER-EXIT SAPMV45A processing |
| Current constraint : | | |
| U*SER-EXIT* is a processing routine established by SAP in the sales management program. | | |
| ECIR Consulting Optimization | | |
| Memory management is improved  Functions calls are limited, processing time is enhanced  In addition, processing modifications are optimized, improved and traceable over time.  Finally, non-regression tests are limited. | | |
| Remark : | ALL USER-EXIT, regardless of the business system (ECC6, SRM, MDG…) can benefit from this optimization. | |
| Program example | ECIR Consulting provides a program and a control policy in order to monitor the concept and the benefits obtained. | |

## Processing program: ECC6, CUSTOMER-FUNCTION

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| Object example : | | Processing the customer function  EXIT\_SAPMV45A\_004 |
| Current constraint: | | |
| Customer function is a processing function module established by SAP under the sales management program. It extends the functionality of the standard program. | | |
| ECIR Consulting Optimization | | |
| Memory management is improved  Functions calls are limited, processing time is enhanced  In addition, processing modifications are optimized, improved and traceable over time.  Finally, non-regression tests are limited due to the multiplicity and treatment separation our solution provides | | |
| Remark : | ALL CUSTOMER FUNCTIONS, regardless of their business system (ECC6, SRM, MDG…) can benefit from this optimization. | |
| Program example | ECIR Consulting provides a program and a control policy in order to monitor the concept and the benefits obtained. | |

## Processing program: ECC6 BADI with single instance

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| Objet example : | | Processing BADI ME\_PO\_PROCESS |
| Current constraint : | | |
| This BADI enables the extension of the SAP standard program in purchase orders management.  It has a single instantiation hence must be shared by all developers. | | |
| ECIR Consulting Optimization | | |
| Memory management is improved  Functions calls are limited, processing time is enhanced  In addition, processing modifications are optimized, improved and traceable over time.  Finally, non-regression tests are limited. | | |
| Remark: | ALL BADI with single instantiation, regardless of the business system (ECC6, SRM, MDG…) can benefit from this optimization. | |
| Program example | ECIR Consulting provides a program and a control policy in order to monitor the concept and the benefits obtained. | |

## Processing program: ECC6, ENHANCEMENT POINT

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| Objet example : | | 2011 – Switzerland – SAP CRM project |
| Current constrain: | | |
| Enhancement-points are not followed-up. An example is a CRM Switzerland project where developers hid their work on the DEV machine by directly modifying the SAP standard programs to prevent the follow-up of their work.  Changes were actually undertaken out of the SAP system landscape and were not visible to the client.  Development norms were strictly respected when operating on technical objects that are not in accordance with SAP developments norms.  Over 8 months of unnecessary work. | | |
| ECIR Consulting Optimization | | |
| You know the full set of extension points; they will be referred to along the solution.  So long as you have multiple processing in these extension points, you will obtain the same supplementary benefit for the BADI and USER-EXIT:   * Memory management is improved * Functions calls are limited, processing time is enhanced * In addition, processing modifications are optimized, improved and traceable over time. * Finally, non-regression tests are limited. | | |
| Remark : | ALL EXTENTION POINTS, regardless of the business system (ECC6, SRM, MDG…) can benefit from this optimization and these controls. | |

## Processing program: ECC6, INPUT INTERFACES

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| Objet : | | Data integration in SAP  Project 2008, Sweden  Project 2005, France |
| Current constrain : | | |
| Business rules change over time, it is difficult to measure their changes and the reasons for such modifications.  If these business rules are not rigorously processed, they lead to major constraints in the project management. | | |
| ECIR Consulting Optimization | | |
| The idea here is to improve the programming of these interfaces in order to follow up changes.  You will observe that :   * Memory management is improved * Functions calls are limited, processing time is enhanced * In addition, processing modifications are optimized, improved and traceable over time. * Finally, non-regression tests are limited.   It is possible to identify all the changes, monitor them easily from one machine to another and to see differences on several machines simultaneously.  To manage deviations and machines, the SERVER is recommended. | | |
| Remark : | All input interfaces can benefit from these optimizations. | |
| Program example | ECIR Consulting provides a program and a control policy in order to monitor the concept and the benefits obtained. | |

## Processing program: ECC6, OUTPUT INTERFACES

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| Objet example : | | Data integration in SAP HES  Project 2012, France  HPRIM XML Connector  Integrating company : S2H  <http://www.s2h-sante.com/> |
| Current constraint : | | |
| Creating an XML file from complex business rules THAT should continuously evolve.  These business rules must respond to external international legal constraints.  The previous integrator had failed to be implemented during 18 months. | | |
| S2H Testimony | | |
|  | | |
| ECIR Consulting Optimization | | |
| Our solution was set up in less than 3 months.  You will observe that :   * Memory management is improved * Functions calls are limited, processing time is enhanced * In addition, processing modifications are optimized, improved and traceable over time. * Finally, non-regression tests are limited. * Changes are traceable and identifiable.   It is possible to identify all the changes, monitor them easily from one machine to another and to see differences on several machines simultaneously.  To manage deviations and machines, the SERVER is recommended. | | |
| Remark: | All output interfaces can benefit from these optimizations. | |
| Sample program | We can provide a solution to you but it is not part of the examples provided with the client.  Respect of confidentiality and solutions developed by ECIR Consulting. | |

## Processing program: MDG, WORKFLOW

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| Objet example : | | Creating data in SAP MDG  Project 2013 France  Integrator company : conseil-plus  [www.conseils-plus.fr](http://www.conseils-plus.fr) |
| Current constraint : | | |
| Creating multiple data from a single data.  Data monitoring and processing | | |
| Testimony Tips-Plus | | |
| As part of the implementation of MDG suppliers, ABAP rules were used to define, in a flexible and scalable manner, a way to copy or distribute data based on the activity of the supplier. Concretely, whenever a billing address differed from the ordering address, the two addresses were entered in a single application to create MDG. After validation, the information was automatically distributed between two ERP suppliers created. These suppliers were linked via the partner function. The rule engine allowed a precise sequencing of the actions necessary to this distribution, on different groups of data that are totally independent.  Technical Manager-Plus - P. H. | | |
| ECIR Consulting Optimization | | |
| The idea here is to improve the SAP standard program in order to help the client to manage better the validation process.  You will observe that :   * Memory management is improved * Functions calls are limited, processing time is enhanced * In addition, processing modifications are optimized, improved and traceable over time. * Finally, non-regression tests are limited. * Changes are traceable and identifiable.   It is possible to identify all the changes, monitor them easily from one machine to another and to see differences on several machines simultaneously.  To manage deviations and machines, the SERVER is recommended. | | |
| Remarque : | All interfaces involving workflow can benefit from these optimizations. | |

## Processing program: specific authorizations

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| Objet example : | | SAP CRM – 2012 – ACE |
| Current constraint : | | |
| On a SAP CRM machine, managing authorizations by SAP standard objects are not enough.  You can work around this problem by using a SAP standard tool: the ACE. | | |
| ECIR Consulting Optimization | | |
| It is possible to process all the rules of users authorizations simply by integrating   * Authorizations’ centralization * Management of time dependence * Free programming authorizations * The use of SAP authorizations objects that are allowed and even recommended.   Compared to ACE, data volume is very limited; the number of users can also be unlimited.  To integrate this programming logic, BADI or extension points can be used. | | |
| Remark: | All SAP NETVEAWER solutions can use this concept. | |

## Processing program: ECC6 / CRM, pricing management

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| Objet example : | | Appendix D of the book by Yann Szwec on ​​ABAP OBJECT programming,  Implementation 2008, Sweden, revised in ABAP object. |
| Current constraint : | | |
| The management of SAP standard pricing does not correspond to the needs of the user company. Here, the company is Swedish.  An experienced ABAP developer in procedural programming and function module carried out development. | | |
| ECIR Consulting Optimization | | |
| It is possible to manage procedures for the calculation of multiple prices.   There can be no interference between the different rules for calculation. This is due to the strict separation of the memory provided by the ABAP object   Managing regression tests is limited in dependent objects and business processes.   The management of calculation procedures is traceable in time, it is time dependent. | | |
| Remark : | All industries that do not comply with the calculation procedure of SAP standard prices can benefit from this solution.   A complementary solution for both CRM as ECC6 was developed to enable price management. | |
| Program example | We can provide a solution to you but it is not part of the examples provided with the client.  Respect of confidentiality and solutions developed by ECIR Consulting. | |

## Processing program: Printing

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| Object example : | | Project France 2007  Project Franco-Swiss, 2005 |
| Current constraint : | | |
| The Smart Forms require data recovery.  Sometimes, data recovery is common to many Smart Forms with individual data each. | | |
|  | | |
| Data are treated in a processing policy :   * Traceability * Time dependence * Sharing of data recovery   Policy instantiation allows for strict separation of data for each print. | | |
| Remark: | 2 projects have provided confirmation of the need for sharing and tracking processing. | |
| Program example | We can provide a solution to you but it is not part of the examples provided with the client.  Respect of confidentiality and solutions developed by ECIR Consulting. | |

## Processing treatment: BI, extractors

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| Objet example : | |  |
| Current constraint : | | |
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| ECIR Consulting Optimization | | |
| Tracing all processing in the extractors  Monitoring changes over time | | |
| Remark : | All extractors can be implied and followed-up. | |

# History of the conception and development of the solution

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| Year | SAP Solution | Description |
| 2014 | CRM | Specific pricing solution for ISU. |
| 2013 | MDG | Development of the control application WORKFLOW. |
| 2013 | CRM | Expertise on ACE. |
| 2012 | EHS | Development of the application XML, output file. |
| 2010 | CRM | BADI management in Germany. |
| 2009 | ECC6 | Idea of a trainee for the creation of an integrator in the user-exit extension |
| 2008 | CRM | Creating the management solution for the input interface Sweden.  Maintaining the pricing solution ABAP procedure. |
| 2007 | ECC6 | Creating a shared solution Smart Form.  Shared procedural programming. |
| 2005 | R/3 4.7 | Creating the Group AREVA payment application, merging different payments with ABAP procedures.  Shared procedural programming. |