

## Agenda

#### Introduction

Delta handling – enhance number of fields

- Transfer via Report RH\_SFI\_SYNCHRONIZE\_EMPL\_DATA Web Service Mode
- Transfer via Report RH\_SFI\_SYNCHRONIZE\_EMPL\_DATA File Transfer Mode
- Transfer via Report RH\_SFI\_WITHDRAW\_VARIANT

Full upload via CSV-file - enhance number of fields

 Transfer via Report RH\_SFI\_TRIGGER\_EMPL\_DATA\_REPL - File Transfer Mode

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#### Introduction

The integration add-on for SAP ERP Human Capital Management (SAP ERP HCM) and SuccessFactors Business Execution (SuccessFactors BizX) enables the integration of employee data.

The standard interface includes already 34 standard and 15 custom fields. In case you want to enhance the number of fields for the user data integration you need:

- ESR-content needs to be changed.
- To enhance the report in SAP ERP HCM that extracts the user data in the SAP ERP HCM system and triggers the integration.
- New fields must be configured in the SuccessFactors BizX

More information regarding the integration add-on for SAP ERP Human Capital Management (SAP ERP HCM) and SuccessFactors Business Execution (SuccessFactors BizX) please refer to SAP online help

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# **Delta handling – Enhance Number of Fields**

Transfer via Report RH\_SFI\_SYNCHRONIZE\_EMPL\_DATA - Web Service Mode



# SFSF BizX System

Enhance SF Object User by new fields

Follow the instructions to integrate these fields to integration scenario SFAPI Upsert would not change structurally due to its generic character

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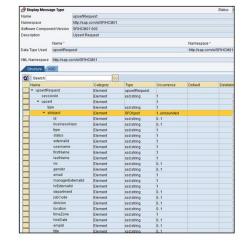
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## ESR - Enhance Message

SWC SFIHCM01 600, Namespace <a href="http://sap.com/xi/SFIHCM01">http://sap.com/xi/SFIHCM01</a>

Adapt Service Interface SFSFUserUpsertRequestConfirmation\_Out by adding the new fields to the Node sfobject

Follow the guideline Enhancement Guide



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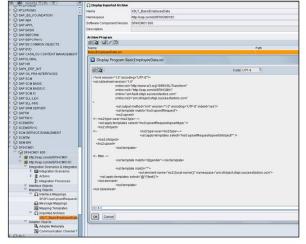
# **ESR - Mapping**

SWC SFIHCM01 600, Namespace <a href="http://sap.com/xi/SFIHCM01/IC">http://sap.com/xi/SFIHCM01/IC</a>

Adapt XSLT Mapping for Interface Mapping

 $SFSFUserUpsertRequestConfirmation\_Out\_to\_SFSFUserUpsertRequestConfirmati$ 

on\_In



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## **SAP HCM System – Proxy Regeneration**

Regenerate proxies in transaction SPROXY SWC SFIHCM01



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In the transaction SPROXY, regenerate the enhanced proxies. The new field is added to the proxy SFI\_SE\_SFOBJECT and thereby receives a field name that is compatible with ABAP (for example, NEWFIELD).

#### **SAP HCM System**

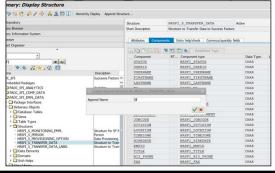
Enhance Structure HRSFI\_S\_TRANSFER\_DATA by Customer APPEND

Comment: In case of Web Service Transfer the used names can be mapped later to the potentially different names in generated proxy structure

Comment: For File Transfer the used component names can be mapped later to the potentially different names in SFSF

Comment: This APPEND allows the internal processing for delta handling and is automatically considered in database table HRSFI\_D\_EXTR\_LOG (here implicitly in

xml format)



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Enhance the structure HRSFI\_S\_TRANSFER\_DATA with a customer-specific append structure for the new field.

The new field is thereby automatically included in the delta handling of employee data and is considered in the table *SuccessFactors: Log Table for Delta Handling* (HRSFI\_D\_EXTR\_LOG).

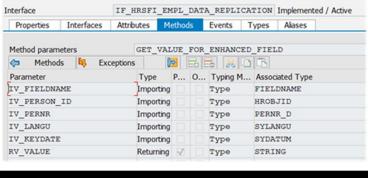
We recommend that you use the same field name as for the business object *User* in SuccessFactors BizX (thus NEWFIELD, for example).

#### **SAP HCM System: Data Provisioning**

#### Implement BAdI

- Enhancement Spot HRSFI\_EMPL\_DATA\_REPLICATION
- BAdI Definition HRSFI\_B\_EMPL\_DATA\_REPLICATION
- Method GET\_VALUE\_FOR\_ENHANCED\_FIELD of interface IF\_HRSFI\_EMPL\_DATA\_REPLICATION

Each relevant enhanced field must be considered in this method (IV\_FIELDNAME = Component Name in APPEND structure



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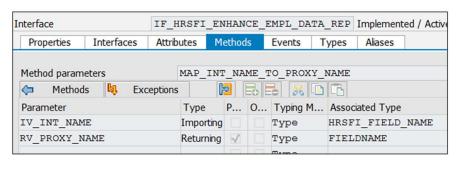
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Create an implementation for the Business Add-In (BAdI) Replication of Employee's Data (HRSFI\_B\_EMPL\_DATA\_REPLICATION) to define the data retrieval for the new field. For this, use the method GET\_VALUE\_FOR\_ENHANCED\_FIELD. For each enhanced field (IV\_FIELDNAME) provide a method to return RV\_VALUE.

#### SAP HCM System: Outbound Mapping I

#### Implement BAdI

- Enhancement Spot HRSFI\_EMPL\_DATA\_REPLICATION
- BAdI Definition HRSFI\_B\_ENHANCE\_EMPL\_DATA\_REP
- Method MAP\_INT\_NAME\_TO\_PROXY\_NAME of interface IF\_HRSFI\_ENHANCE\_EMPL\_DATA\_REP
- This method is only relevant if the component names in the APPEND structure HRSFI\_S\_TRANSFER\_DATA differs from the proxy names.



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If in your customer-specific append structure, you have used a different field name than the one for the business object *User* in SuccessFactors BizX for example,

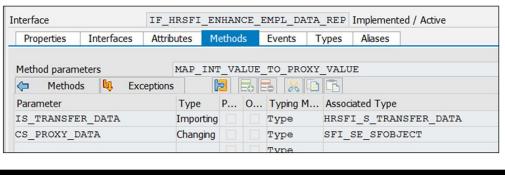
- in SFSF field NEW FIELD
- In SAP HCM ZZ NEW FIELD

Then create an implementation of the BAdI Enhance the Replication of Employee Data (HRSFI\_B\_ENHANCE\_EMPL\_DATA\_REP) for method MAP\_INT\_NAME\_TO\_PROXY\_NAME. In this implementation define for each enhanced field (available via IV\_INT\_NAME) a corresponding SFSF name (RV\_PROXY\_NAME)

#### SAP HCM System: Outbound Mapping II

#### Implement BAdI

- Enhancement Spot HRSFI\_EMPL\_DATA\_REPLICATION
- BAdI Definition HRSFI B ENHANCE EMPL DATA REP
- Method MAP\_INT\_VALUE\_TO\_PROXY\_VALUE of interface IF\_HRSFI\_ENHANCE\_EMPL\_DATA\_REP
- This method is only relevant if the component names in the APPEND structure HRSFI\_S\_TRANSFER\_DATA differs from the proxy names.



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You use the method MAP\_INT\_VALUE\_TO\_PROXY\_VALUE to map the <u>content</u> of the two fields (content of ZZ\_NEW\_FIELD must be mapped to content of field NEW\_FIELD) to each other.

#### Example:

The field ZZ\_NEW\_FIELD of IS\_TRANSFER\_DATA must be mapped to the field NEW\_FIELD of structure CS\_PROXY\_DATA:

CS\_PROXY\_DATA-NEW\_FIELD = IS\_TRANSFER\_DATA-ZZ\_NEW\_FIELD

In case you extend the user data integration with more than one custom specific field you have to do the mapping for each field in this method.

Note: standard fields (including the 15 custom fields) delivered with the add-on, and fields with same name in append structure and proxy do not have to be mapped in addition. These fields are transferred into the structure RV\_PROXY\_DATA automatically



# **Delta handling – Enhance Number of Fields**

Transfer via Report RH\_SFI\_SYNCHRONIZE\_EMPL\_DATA - File Transfer Mode



# SFSF BizX System

Enhance SF Object User by new fields

Follow the instructions to integrate these fields to integration scenario

Please also consider SAP Note: 1840198

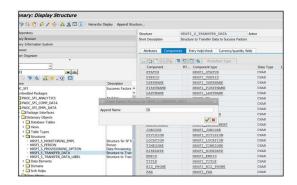
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## **SAP HCM System**

Enhance Structure HRSFI\_S\_TRANSFER\_DATA by Customer APPEND

Comment: This APPEND allows the internal processing for delta handling and is automatically considered in database table HRSFI\_D\_EXTR\_LOG (here implicitly in xml format)



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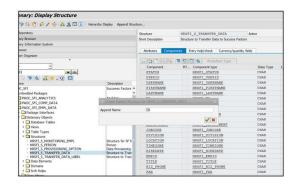
Enhance the structure HRSFI\_S\_TRANSFER\_DATA with a customer-specific append structure for the new field.

The new field is thereby automatically included in the delta handling of employee data and is considered in the table *SuccessFactors: Log Table for Delta Handling* (HRSFI\_D\_EXTR\_LOG).

## **SAP HCM System**

Enhance Structure HRSFI\_S\_TRANSFER\_DATA\_LABEL by the same Customer APPEND as used in structure HRSFI\_S\_TRANSFER\_DATA

Comment: This APPEND allows the internal processing for delta handling and is automatically considered in database table HRSFI\_D\_EXTR\_LOG (here implicitly in xml format)



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In addition to the structure HRSFI\_S\_TRANSFER\_DATA, you also need to enhance the structure HRSFI\_S\_TRANSFER\_DATA\_LABEL with the same customer-specific append structure.

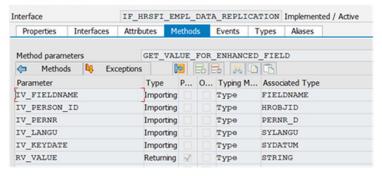
For the file download, the field name that you use in your customer-specific append structure **must** be identical to the field used in the business object *User* in SuccessFactors BizX.

## SAP HCM System: Data Provisioning

#### Implement BAdI

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- BAdI Definition HRSFI\_B\_EMPL\_DATA\_REPLICATION
- Method GET\_VALUE\_FOR\_ENHANCED\_FIELD of interface IF\_HRSFI\_EMPL\_DATA\_REPLICATION

Each relevant enhanced field must be considered in this method (IV\_FIELDNAME = Component Name in APPEND structure



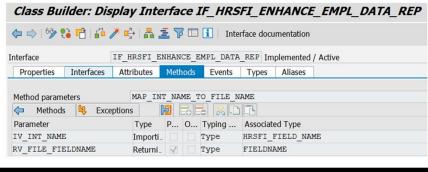
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## SAP HCM System: Change Component Names in File

#### Implement BAdI

- Enhancement Spot HRSFI\_EMPL\_DATA\_REPLICATION
- BAdI Definition HRSFI\_B\_ENHANCE\_EMPL\_DATA\_REP
- Method MAP\_INT\_NAME\_TO\_FILE\_NAME of interface IF\_HRSFI\_ENHANCE\_EMPL\_DATA\_REP
- This method is only relevant if the component names in the APPEND structure HRSFI\_S\_TRANSFER\_DATA differs from their corresponding names in SFSF.



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# **Delta handling – Enhance Number of Fields**

Transfer via Report RH\_SFI\_WITHDRAW\_VARIANT



#### Report: RH\_SFI\_WITHDRAW\_VARIANT

Note: You can use the report to simultaneously set all employees that are contained in the selection of an extraction variant of the report Sync Employee Data with SuccessFactors (with Delta and Inactive Logic) (RH\_SFI\_SYNCHRONIZE\_EMPL\_DATA) to the status Inactive. For example, this is useful if you want to exclude an enterprise area for which you have previously transferred data to SuccessFactors BizX from the data transfer in future.

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# RH\_SFI\_WITHDRAW\_VARIANT

No additional changes compared to RH\_SFI\_SYNCHRONIZE\_EMPL\_DATA

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# Full upload via CSV-file - Enhance Number of Fields

Transfer via Report RH\_SFI\_TRIGGER\_EMPL\_DATA\_REPL - File Transfer Mode



# SFSF BizX System

Enhance SF Object User by new fields

Follow the instructions to integrate these fields to integration scenario

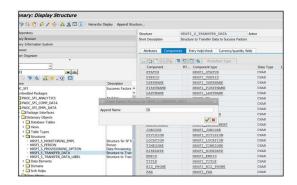
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## **SAP HCM System**

Enhance Structure HRSFI\_S\_TRANSFER\_DATA by Customer APPEND

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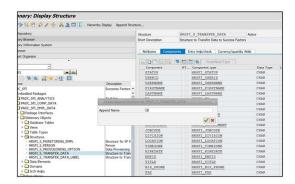
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Enhance the structure HRSFI\_S\_TRANSFER\_DATA with a customer-specific append structure for the new field.

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## **SAP HCM System**

Enhance Structure HRSFI\_S\_TRANSFER\_DATA\_LABEL by the same Customer APPEND as used in structure HRSFI\_S\_TRANSFER\_DATA



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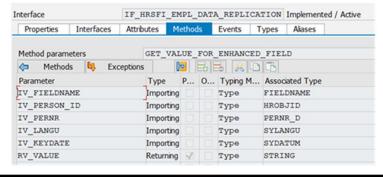
In addition to the structure HRSFI\_S\_TRANSFER\_DATA, you also need to enhance the structure HRSFI\_S\_TRANSFER\_DATA\_LABEL with the same customer-specific append structure.

## SAP HCM System: Data Provisioning

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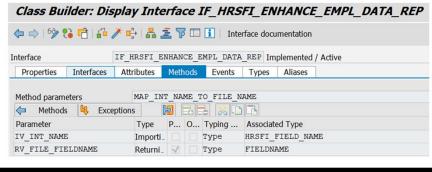
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## SAP HCM System: Change Component Names in File

#### Implement BAdI

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- This method is only relevant if the component names in the APPEND structure HRSFI\_S\_TRANSFER\_DATA differs from their corresponding names in SFSF.



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# Thank you

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