A Summary of the Steps to be carried out to enable a SAP R/3 System send Idoc to SAP Exchange Infrastructure.

First - Maintain the Sender R/3 System:
- **SM59**: Create a RFC destination to XI
- **WE21**: Create a TRFC Port -> Specify the RFC Destination Created
- **BD54**: Create a Logical System for the Idoc Receiver
- **WE20**: Create Partner Profile -> Maintain Outbound and the Inbound Parameters

Second - Log on to XI System:
- **SM59**: RFC Destination for Sender System
- **IDX1**: Create the port to get Idoc Metadata from Sender System (The Port Name must match the port name in the idoc header - Usually in format SAP<System ID> eg. SAPID1 [Optional Step. Not mandatory] )
- **IDX2**: Maintain the Idoc Metadata. This is needed only by XI, and not by other SAP systems. IDX2 is needed because XI needs to construct IDoc-XML from the IDoc. No other SAP system needs to do that.

To Enable Acknowledgement:
- **SXMB_ADM** -> Integration Engine Configuration -> Specific Configuration -> Add New entry -> Select parameters as:
  - **Category**: RUNTIME
  - **Parameters**: ACK_SYSTEM_FAILURE
  - **Current Value**: 1

GO TO SLD:
- **Create Technical System**: Choose WEB AS ABAP if the system is R/3 -> Define SAP SID, Installation Number and Database Host Name a Maintain message Server Details according to Sender System -> Maintain Client Details of Sender System -> Select a Installed Product for Sender System
- **Create Business System**: Choose WEB AS ABAP if the system is R/3 -> Choose the Technical System and the client Created Before -> Choose the Installed Product -> Set:
  - **Business System Role**: Application System
  - **Related Integration Server**: Integration Server

Idoc Tunneling in XI
To prevent performance consuming XMLization and de-XMLization IDOCs are tunneled through SAP XI IDOC adapter meaning no XMLization is executed before the IDOC is passed onto the pipeline. Note the message is converted to UTF-8 codepage.

Start transaction SXMB_ADMIN on SAP XI.

Select option Configuration -> Integration Engine Configuration and add two parameter EXTERNAL_MAPPER in the category IDOC.

Configure the parameter according to the conditions below:
- If Message Code and Message Function are specified in the partner profile:
- If only the Message Code is specified in the partner profile:
- If only Message Function is specified in the partner profile:

Integration Builder

Integration Directory:
• **Add Business System**: Adapter Specific Identifiers -> 'Logical System' identical to the 'Logical System Name' in the SLD Business System

• **IDoc Receiver Communication Channel**: port the same as XI System IDX1

**Additional References**

Ale Configuration for pushing Idocs form SAP to XI

IDOC Statuses