Summary

Symptom
This note provides information about Implementation recommendations for SNC 7.0

Other terms
SCM, ICH, Implementation recommendations for SNC 7.0

Reason and Prerequisites
This note describes implementation recommendations for SNC 7.0

Solution

Recommendations by Component

SCM-ICH-AFS (Functions for SAP Apparel and Footwear)
Currently no restrictions

SCM-ICH-AMO (Alert Monitor)
Currently no restrictions

SCM-ICH-ASN (Advanced Shipping Notification)
While Supplier batch is being stored and transfered on ASN, it is not displayed on the UI.

Serial Numbers not checked against master data Serial number Uniqueness only ensured within ASN.

Cancellation of ASN cannot be transmitted to ERP. A user exit solution is possible.

SCM-ICH-DIO (Data Inbound / Data Outbound Management)
Currently no restrictions

SCM-ICH-EM (Event Manegement for SAP SNC)
Currently no restrictions

SCM-ICH-ERP (ERP-SNC Integration)

Mappings to IDOCs: Mappings from ERP IDoc to XML are only provided for A2A communication (OED ERP < > SNC) and vice versa. Please note that this means that in case of supplier collaboration SAP does not deliver a mapping XML format to the supplier's system and in case of customer collaboration SAP doesn't deliver a mapping XML format to the customer's systems.

In ERP there can be a single contract reference for each vendor generated PO only.

The deletion of sales orders or sales order items in SAP R/3 is not allowed, because the information cannot be transferred via IDoc to the XML. Usually the order or order item will be cancelled/rejected in SAP R/3 instead of deleted.

For ERP->SNC integration, transfer batch classification on PO item level is not supported.

A material that is obtained from a supplier as part of a scheduling agreement release procedure cannot be obtained in ERP from another supplier within an SMI scenario. This also applies to all procurement combinations where a supplier orders the material on the basis of the net demand calculation (for example, forecast delivery schedules or purchase orders) at the same time as another supplier obtains this material via SMI or inbound delivery control. Such combinations are also not possible. The following is a brief explanation of the reasons for the restriction:arrangement function that we also use for multisourcing refers to goods receipts (synonym: procurement elements, demand coverage elements). In other words, the sources of supply of the procurement elements are assigned in accordance with the procurement quotas maintained and the quotas are updated correspondingly. These procurement elements (for example, purchase orders, scheduling agreement delivery schedules, production orders, and so on) are created by the MRP run to cover demand. These procurement elements (for example, scheduling agreement delivery schedules) can then be divided among multiple sources (suppliers) in MRP in accordance with quota arrangements, in other words, a source of supply is assigned to each procurement element. Within the framework of stock procurement in MRP (at SAP), all procurement elements can potentially cover all demands, in other words, there is no separation of the requirements elements (for example, in accordance with the SMI case and the non-SMI case) and there is also no separation of the procurement elements.

There is no PO outbound message from ERP when goods receipt quantity is changed.

ERP does not transmit delivery tolerances with standard IDOC. Delivery Tolerances from Lane master Data can be used on SNC.

Transmission of number of blocked kanbans with the SNC kanban master data report and transmission of the supply area description text is only available in ERP2005 SP2 and Plug-In 2004.1 SP11.

Restrictions regarding Goods receipts handling by sending out Proof of Deliveries (OPOD output message type) from SAP R/3 to SAP ICH 5.0 Please consider that sending out of a Proof of delivery (message output type = OPOD) after posting a (Partial)Goods receipt has certain restrictions which needs to be reflected in SAP ICH 5.0 related supplier collaboration processes:
* Goods receipt process for inbound delivery (T-Code VL32N)   POD can be sent out only once, therefore a partial goods receipt booking does not make sense. Full good receipt is possible!
* Goods receipt process via T-Code MIGO: Sending out of a POD immediately via MIGO is not supported There are different options for transferring (Partial) Goods receipts information to SAP ICH 5.0 by using the RSMIPROACT report (Please read the SNC online documentation - section 'Overview of processing GR data from SAP-R/3').

Batch number integration with ERP only on PO item level, and not for subcontracting components or individual schedule lines.

Rejection of PO items (confirmation with zero quantity and rejection status) cannot be received by ERP. OK for ERP2005.

Transmission of goods recipient vendor with standard PO IDOC only with user exit(see note 888599)

Invoice-Specific Restrictions in ERP-SNC Integration:
Invoice-specific fields (e.g. Net price, currency, payment terms, etc.) in scheduling agreements, contracts and info records are not transferred to SNC.The issue is solved with note 1053121 for SAP ERP 2005. The solution will be downported to SAP R/3 Enterprise.As a workaround invoice specific fields can be maintained in the Partner-Dependent Purchasing Documents screen in SNC webUI and via transaction /SAPAPO/MTI2 (ERS indicator)."

Revalution is only supported in the self-billing scenario.

SAP ERP does not publish an Invoice Confirmation.

It is not possible to post subsequent debits or credits and unplanned delivery costs via INVOIC Idoc in Standard SAP ERP.The issue can be solved with note 1040648.

SCM-ICH-FCS (Forecasting)
Currently no restrictions

SCM-ICH-FTR (File Transfer)
Currently no restrictions

SCM-ICH-IMO (Inventory Monitor)
Deployment functionality is only available on SCM server version, as APO deployment is used.

Advanced safety stock functionality is only available on SCM server version, as APO functionality is needed.

Product allocation is only available on SCM server version, as APO product allocation functionality is needed.

The Order Forecast Monitor cannot be used to show data derived from purchase orders, which take part in the SPM supersession process.

SCM-ICH-IV (Invoice)
Currently no restrictions

SCM-ICH-KNB (Kanban)
Currently no restrictions

SCM-ICH-MD (Master Data)
Currently no restrictions

SCM-ICH-NDC (Net Demand Calculation)
Purchasing group not supported in PO in SMI process. It is not retrieved from contract for replenishment orders(relevant for SMI process).

No ATP check is performed within RR planning services. ATP results from the ERP back-end can be received for replenishment orders which have been published to the ERP back-end.

SCM-ICH-PO (Purchase Order and Replenishment Order)
Replenishment Orders: The only replenishment order changes from customer

side considered in the responsive replenishment scenario are PO-Numbers, which are transferred into the Sales Order via the IDOC ORDRSP. No other order changes are taken into account.

SNC needs full update mode for transmission of standard PO IDOCs: user exit required (see note 888599).

ERP cannot send final delivery indicator with standard IDOC. To close POs on SNC, a customer project solution is required. Alternatively one can work with ASNs on SNC and use delivery tolerances from master data to close PO items.

The SNC contract manufacturing procurement scenario is based on ERP interface functionality introduced in SAP ERP 2005.

Components assigned to a schedule line in SNC should be changeable until a goods receipt happened in SAP ERP, exact until open quantity equal requested quantity. The BAPI_PO_CHANGE, which is sent from SAP ERP to SNC, however, does not contain the goods receipt quantity of the PO schedule line. This needs to enhanced in a customer project. Alternatively, one can work with ASNs.

There is no PO outbound message from ERP when final delivery indicator (ELIKZ) is set during goods receipt posting.

PO and invoice does not support text items. Also PO components must refer to SCM master data.

No Handling Unit (HU) mapping is carried out on SAP XI while converting the Replenishment Order Notification XML to the ORDERS.ORDERS05 IDoc.

Changes of the delivery date of the sales order item made in SAP R/3 SD (Sales and Distribution component) are not transferred back to SAP ICH 5.0 This is a SAP R/3 Backend Integration limitation in regards to the responsive replenishment scenario.

SCM-ICH-PRO (Promotion Planning)
Currently no restrictions

SCM-ICH-QM (Quality)
Currently no restrictions

SCM-ICH-REL (Scheduling Agreement Release)
Integration with APO for scheduling agreement release and corresponding confirmations is tested and released by SAP only from SAP SCM 5.0.

SCM-ICH-REP (Reporting)
Currently no restrictions

SCM-ICH-RET (Returns)
Returns Instruction, Returns ASN: can only be used as part of SPM returns scenario.

SCM-ICH-SCO (Supplier Confirmation)
Currently no restrictions

SCM-ICH-SNI (Supply Network Inventory)

Ownership of stock is linked to consignment indicator in XML integration.

The integration reports for the extended SNI scenario of SNC 5.1 are only available from ERP2005 EhP2.

SCM-ICH-TLB (Transport Load Builder)

Transport Load Builder User Interface (TLB UI) only shows the currently requested quantities of replenishment orders (which may or may not take into account the confirmations).

SCM-ICH-WO (Work Order)

SCM server installation and live cache is required for generating work orders based on PDS and PPMs master data.

The work order projection calculates a low projected quantity in case there is a product which skips a phase. For example: Consider a work order with three phases: 1st phase, 2nd phase, transport phase. According to the plan 10 pieces of product A and 5 pieces of product B come out of the 1st phase. Then only product A continues through the 2nd phase. Both product A and product B go into the following transport phase, meaning all 10 A's and 5 B's are delivered. Now actual data identical with the plan is provided for the 1st phase: 10 A's and 5 B's came out of the 1st phase. The work order will calculate the projected total quantity of 10 instead of 15, since the projection algorithm does not take the product B into account which skips the 2nd phase. Workaround: set up phase structure so that product B also moves through the 2nd phase, even though nothing is done to the product in the 2nd phase. When capturing the actual output of product B in the 1st phase, immediately also capture the input and output of this product in the 2nd phase. Then this product will be available for the projection in the transport phase.

Automated adaption of work orders only for changing delivery schedule lines.

WO process: no supplier side integration into ERP systems is delivered. There are B2B XML message interfaces.

WO integration: the B2B XML message interfaces cannot transmit the freely defined parameter value pairs of the work order.

Scheduling in the standard WO process does not depend on the quantities of the components or products. There are BADIs to extend te sceduling functionality.

While some details of a work order can be maintained manually before publishing it to the supplier, no change in the list and sequence of phases overall is possible.

Recording of actuals on a work order have to be related to a (dummy) product and contain a quantity.

WO process: no supplier side integration into ERP systems is delivered. There are B2B XML message interfaces.

To create a work order in SNC, a purchase order has to be present in SNC as predecessor order document. Accordingly, WOs always have a transportation

phase to the POs ship-to location.

In WO worklist/overview, the supplier/customer batch id columns do not show the changed batch ids.

In production run, if batch id is not present in inventory, but batch id is required by configuration settings the process flow stops.

A WO schedule line should not be modified or split (resulting an origin and a first child schedule line) multiple times before the original and the first child's status is not finalized (e.g the original schedule line is "cancelled", and the first child's status is "accepted").

Co-Product's characteristics does not shown in the WO overview/WL.

Cross-Application Function Recommendations

Number Ranges

On ICH order document numbers must be unique by business partner. A simultaneous use of the same number for different systems of the samebusiness partner is not supported.

A purchase order or a release is unique for a customer. The data storage in the ODM is partner dependent. It is not allowed in the SAP R/3s to use overlapping number ranges for PO and Release numbers. Therefore, if more than 1 SAP R/3 are connected to the SAP SNC System you need to create in SAP SNC 1 a Customer Partner for each backend system.

Rounding

While it is possible to maintain >2 level rounding values in rounding profile, only the first two levels will be considered.

Exceptions

The planning Service SPP_DUE_ALERT, which creates the alert type 7806, can be executed in SCM server only.

B2B Mappings

SAP does not provide mappings from the SAP B2B XML messages used by SNC to external standards (and vice versa).(Changed at 17.09.2008)

SAP SNC Web UI

In general SNC supports only base unit of measure on user interfaces, except PO, ASN, Invoice.

Batch Functionality

The batch functionality is available for products, co-products, components in SNC 7.0 only if the batch management flag is set in the product master.

Unloading Point in supplier collaboration has 20 characters only (ERP: 25). (Changed at 17.09.2008)

In customer collaboration, Return Delivery Instruction Notification: item level group ID has only 3 characters. (Changed at 17.09.2008)

(Dis-)aggregation functionality over locations and/or products is not provided(Changed at 17.09.2008)

In customer collaboration: the functionality for inventory split concerning baseline/promotion and out of stock calculation require that inventory and sales data are sent in one Product Activity XML message. This is a limitation related to the Data Import Controller which is one process step in the Responsive Replenishment Scenario. Consider that e. g. sending inventory report and sales report in two EDI files wouldn't work, unless it can be put in one Product Activity XML message. (Changed at 17.09.2008)

The following restrictions apply for the planning object structure functionality of SCM basis which relies on SAP Netweaver BI
- A BI client must be defined at the beginning of the implementation and can not be changed afterwards.
- The planning object structures used for and delivered with SNC can only be modified in the BI client. These changes however should not be necessary, so this applies only for modifications to the system.
(Changed at 17.09.2008)

Header Data

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Released on: 29.11.2011   15:17:46
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Priority: Recommendations/additional info
Category: Release planning information
Primary Component: SCM-ICH-AMO Alert Monitor

Valid Releases

Software Component	Release	From Release	To Release	and Subsequent
SCM	700	700	700	

Related Notes

Number	Short Text
1412844	Implementation recommendations for APO 7.0 SPP
1410295	Implementation recommendations for SAP F&R 5.1 on SCM 7.0
1409611	Implementation recommendations for APO 7.0 gATP
1409386	Implementation recommendations for APO 7.0 TP/VS
1406424	Implementation recommendations for APO 7.0 PP/DS
1405656	Implementation recommendations for APO 7.0 DP
1405636	Implementation recommendations for APO 7.0 MD, INT, INC
1405601	Implementation recommendations for APO 7.0 SNP, CTM and VMI
1284758	Implementation recommendations for SAP EWM 7.0
1273529	Implementation recommendations for SAP AII 7.0
1180861	SAP SNC 7.0 ERP integration
1179583	Implementation recommendations for EM 7.0