



**XRN5186 – Modification 0701: Aligning Capacity  
booking under the UNC and arrangements set out  
in relevant NExAs**

High Level Solution Options

# Background

- This Change Proposal has been raised to deliver the changes proposed through UNC Modification 0701 – Aligning Capacity booking under the UNC and arrangements set out in relevant NExAs
- This Modification seeks to improve visibility where a consumer has entered into a bi-lateral Network Exit Agreement (NExA) with the relevant Transporter and to link capacity increases with the NExA so that the allowed capacity does not exceed the capacity as agreed in the NExA.



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High Level System Solution  
Impact Assessment

# Change Overview

## XRN5186: Modification 0701: Aligning Capacity booking under the UNC and arrangements set out in relevant NExAs

This change is to deliver the system solution and processes associated to improve visibility where a consumer has entered into a bilateral Network Exit Agreement (NExA) with the relevant Transporter, and to link capacity increases with the NExA so that the allowed capacity does not exceed the capacity as agreed in the NExA. At high level this change seeks to:

- Enhance what is held in DES for NExA sites
- Cap the PMSOQ of NExA sites at the NExA value (PMSOQ must never exceed NExA SOQ)
- Ensure any capacity amendments for Class 1 or 2 sites are referred to the relevant Transporters
- Ensure approved capacity only comes into effect where it is within the effective dates set out within the NExA
- Notify Transporters where the Rolling AQ for Class 3 and 4 sites comes within a defined % of the NExA SOQ

This will make NExA information visible to Shippers, providing greater transparency of NExA sites. Linking UK Link capacity to that agreed within the NExA should prevent discrepancies occurring where the capacity on the system is greater than the customer is allowed to use in accordance with the NExA. This change will ensure that System capacity is consistent with that allowed by the NExA, where one is in place. Where a NExA is not in place then the current processes will apply.

## Solution Options

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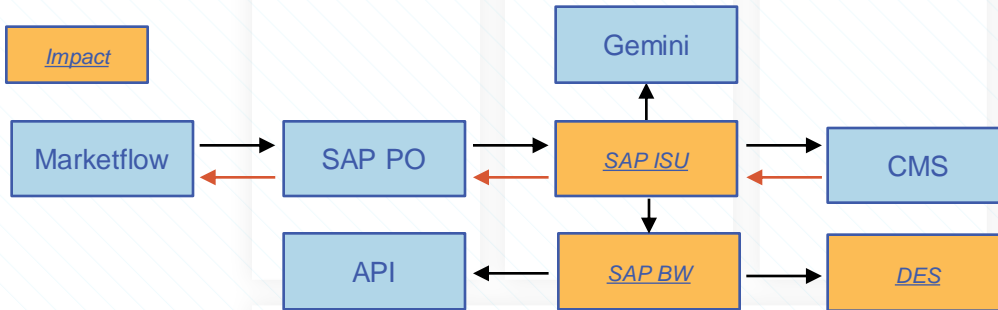
UK Link System changes to NExA arrangements for Shippers and Transporters

# Option 1 - High Level Impact Assessment

## 1 – UK Link System changes to NExA arrangements for Shippers and Transporters

- SAP ISU** : Code changes to ZSMP screen to allow update time sliced information for MPRN with NExA SOQ, SHQ and capping PMSOQ for any site.
- Change to existing table structure to accommodate new fields (ZMT\_NEXA\_AGMT)
  - Code Change to Nomination workflow & Contract change workflow for CAPACITY referral for NExA sites (Class 1 & 2)
  - Code Change to CNF, BRN and SPC (Capacity & Class change) file validation for sites with NExA and new rejection codes to be introduced
  - Changes to CSS registration process to validate the NEXA SOQ/SHQ against BRN SOQ/SHQ after message received from CSS and modify the ASN trigger logic
  - DDU file will be triggered for any sites where class change has happened for NExA sites.
  - Code change to Ratchet calculation program for NExA sites to validate PMSOQ against NExA SOQ
  - Changes to Ratchet charge calculation which feeds Capacity Invoice and supporting information
  - Code changes to PRN, RAT & PMN file population logic PMSOQ field for notifying the Shippers/DNs when Ratchet value capped at NExA SOQ
  - SQVI query to Identify sites where current PMSOQ > NExA SOQ and share with CDS team (One time activity).
  - New ISU report to identify NExA site where PMSOQ is greater than NExA SOQ or SHQ
- SAP BW & BO**: Code changes to existing BW extractor tables/DSOs for additional NExA details.
- Code and structure enhancement in the interface for Meter point Information tab
  - Code changes to portfolio view for Shipper and Transporters users
  - 3 New Reports – 1. for Transporters for rolling AQ and SOQ is within X%; 2 – NExA details per Shipper/Network Combination; 3. Class change notification report - Next-day report to show where class has changed. DDP option could fulfil reports 1, 2 and 4 if requested.
- DES**: Screen layout changes for addition of new fields for NExA SOQ/SHQ and history  
Change in Web proxy structures. Data transformation for new fields to align with existing Portal screen display logic.

### Impacted Systems



### Assumptions

- NTS direct connect & CSEP sites out of scope of this change
- No File format changes to any existing files to include new fields for NExA SOQ/SHQ
- Data cleanse for NExA Sites was delivered as part of XRN5146. However, any bulk changes required on this master data from now to go live will be considered as in scope of this change
- NExA info will be updated to UKLink manually by user via internal screen only
- New report structure and delivery frequency to be finalised as part of Detailed Design phase.
- Existing DN portal screen will be reused for NExA referrals to DNs
- Existing DES portal screens will be reused to capture NExA information
- New rejection code will be agreed with industry stakeholders as part of Detailed Design phase
- There may be consequential change required in DDP. The scale of this change will be determined during Detailed Design phase
- The ratchet process is unchanged - it is only the capped value that will change
- Signed off Data Permission Matrix will be available
- Overall efforts are based on the high level analysis, the stated efforts may vary during Detail Design.
- Estimate does not include DDP reports if they are delivered by a separate Sprint

Overall Impact	Release Type	High Level Cost Estimate
Large	Major	120K – 200K GBP

# Option 1 - System Impact Assessment

	Reports	Interface	Enhancements	Workflow	DES
<b>System Component:</b>	SAP BW/BO	SAP ISU	SAP ISU	SAP ISU	External Screens
<b>Impacted Process Areas:</b>	BW & Reporting	Confirmation. Contract Change	SPA & Reads	SPA	DES
<b>Complexity Level (per RICEFW item):</b>	High	Medium	High	High	Medium
<b>Change Description:</b>	<ul style="list-style-type: none"> <li>Change to existing DSO (1)</li> <li>Code change for BW to DES proxy (3)</li> <li>Code changes to compare AQ for NExA Class 3 &amp; 4 sites against %</li> <li>3 New reports for DNs</li> </ul>	<ul style="list-style-type: none"> <li>Code change in CNF, SPC interface for new rejection codes</li> <li>PMSOQ field population logic for NEXA sites in RAT, PMN &amp; PRN file</li> <li>New report</li> </ul>	<ul style="list-style-type: none"> <li>Code change to ZSMP screen</li> <li>Table structure change for add new fields</li> <li>Ratchet calculation program change</li> <li>CSS Registration, BRN &amp; ASN validations</li> <li>Changes to Ratchet charge calc.</li> </ul>	<ul style="list-style-type: none"> <li>Nomination workflow change for referral</li> <li>Contract change workflow for SPC</li> <li>CSS Registration Workflow</li> </ul>	<ul style="list-style-type: none"> <li>Screen layout changes</li> <li>Web proxy change for Meter point info.</li> <li>Data transformation for new fields</li> <li>Data permission matrix</li> </ul>

	ISU	BW	AMT	DES	API
<b>Test Data Prep Complexity:</b>	Medium	Medium	Low	Medium	n/a
<b>Unit and System Test Complexity:</b>	High	High	Low	Medium	n/a
<b>Pen Test Impact:</b>	n/a	n/a	n/a	n/a	n/a
<b>Regression Testing Coverage:</b>	High	High	Low	Low	n/a
<b>Performance Test Impact:</b>	No	No	No	No	n/a
<b>Market Trials:</b>	n/a	n/a	n/a	n/a	n/a
<b>UAT Complexity:</b>	High	High	Low	Medium	n/a

# Option 1 - Process Impact Assessment

Process Area	Complexity	File Formats	Exceptions	External Screens	Batch Jobs	Performance Test?	CSS Code Conflicts
SPA	High	No	No	Yes (DES)	No	No	Yes
Metering (Reads)	Medium	No	No	No	No	No	Yes
Reconciliation	n/a	n/a	n/a	n/a	n/a	n/a	No
Invoicing – Capacity	Medium	No	No	No	No	No	No
Invoicing – Commodity	n/a	n/a	n/a	n/a	n/a	n/a	No
Invoicing – Amendment	n/a	n/a	n/a	n/a	n/a	n/a	No
Invoicing – Other	Medium	No	No	No	No	No	No
Rolling AQ	n/a	n/a	n/a	n/a	n/a	n/a	No
Formula Year AQ	n/a	n/a	n/a	n/a	n/a	n/a	No
RGMA	n/a	n/a	n/a	n/a	n/a	n/a	No
DSC Service (BW/BO/DDP Report)	High	No	No	No	No	No	No
CSS Processes	High	No	No	No	No	No	Yes

# Next Steps

- The Solution Change Pack will be submitted for industry approvals on Monday 16<sup>th</sup> August
- Consultation closeout will be on Friday 27<sup>th</sup> August
- We will be seeking solution approval at the next ChMC meeting on 8<sup>th</sup> September
- Do DSG have any views/additional comments?