Statnett

Implementation guide for EDIFact via ECP

Innhold

Versions

Version	Comment	Autor	Date
0.1	Initial version	Oddgeir Sæther	19.08.2025
0.9	Implemented change based on feedback	Oddgeir Sæther	04.09.2025
1.0	Corrected EDIFACT message types	Oddgeir Sæther	11.12.2025
1.1	Changed Sekundær avviksrapport to: NOMMSEDI-PTA51-MTA17. Requested APERAK status.	Oddgeir Sæther	19.01.2026

General

Background

Statnett SF have been using SMTP as protocol for receiving and sending EDIFact messages. Statnett don't consider SMTP as a secure protocol. It has limits considering security. These limits are (not limited to):

- Authentication
- Encryption
- Traceability

Statnett will phase out the SMTP traffic starting with the messages that are considered operational critical.

Messages affected

The messages affected is:

- DELFOR
- QUOTES
- UTILTS

ECP/EDX

Reasons for choosing ECP/EDX

ECP/EDX provides the security that lacks in SMTP. ECP/EDX key features:

- Encryption
- Authentication

EDIFact

Format and message flow

There will be no change in EDIFact content or message flow wit introduction of ECP/EDX. The EDIFact message flow will still be:

- Payload message (DELFOR, QUOTES, UTILTS)
- Transport receipt (CONTRL)
- Business acknowledgement (APERAK)

In addition, there will be the ECP technical acknowledgement messages.

Addressing

The UNB addressing of the EDIFact messages will not be changed.

Prerequisite

ECP/EDX

Before implementing EDIFact over ECP/EDX the actor needs to have a working ECP/EDX installation.

For more information about ECP/EDP:

https://ediel.org/nordic-ecp-edx-group-nex/market-actor-onboarding/

EDIFact

The actor needs to have a an existing EDIFact exchange with Statnett SF.

The EDIFact specifications are located here:
https://ediel.no/Info/bruker-og-implementasjonsguider

Transition strategies

Statnett SF have prepared for flexibility for the transition to ECP/EDX. The flexibility is based on the following concepts:

1. Flexibility for receiving messages:
   When the initial configuration is set up, Statnett will reply CONTRL and APERAK on the channel the BSB sent the message. This mean that the BSP can start sending messages over ECP over their own leisure withing a given period.
2. Flexibility for sending messages:
   Statnett can configure sending of messages on message type level pr. BSP. Statnett can also send out messages on both SMTP and ECP in a transition period. This gives the BSP flexibility make the transition on their leisure.

Statnett recommends the following strategies:

- Message-type by message-type
  We can take each message separately.
- By direction
  We take incoming messages and outgoing messages separately.

Messages

To Statnett

EDIFact type	Beskrivelse	ECP Businnes type
DELFOR	Produksjonsplaner og systemdata	NOMMSEDI-PTA17-MTA14
QUOTES	Primær døgn - bud	NOMMSEDI-PTA52-MTA24

From Statnett

EDIFact type	Beskrivelse	Productcode (BGM)	ECP Businnes type	APERAK
UTILTS	Aktivert aFFR	S12	NOMMSEDI-PTA51-MTA83	Yes
UTILTS	Aktivert FCR	N14	NOMMSEDI-PTA52-MTA83	Yes
UTILTS	Frekvensrapport	N13	NOMMSEDI-PTA47-MTA38	Yes
UTILTS	Primær - Avviksrapport	N06	NOMMSEDI-PTA52-MTA17	No
UTILTS	Primær døgn - Aksepterte bud (STS: N06)	N11 – D-1 N18 – D-2	NOMMSEDI-PTA52-MTA82	Yes
UTILTS	Primær døgn – Markedsresultat (STS: N15)	N11 – D-1 N18 – D-2	NOMMSEDI-PTA52-MTB34	No
UTILTS	Sekundær - Avviksrapport	S40	NOMMSEDI-PTA51-MTA17	No

APERAK and CONTRL

APERAK and CONTRL messages should have the same message type as the incoming message, postfixed with -CTRL or -ACK.
CONTRL messages for APERAK should have same Message type as CONTRL for regular messages.

EDIFact type	Message type	Example
CONTRL	<incoming messagetype>-CTRL	NOMMSEDI-**PTA51-MTA83**-CTRL
APERAK	<incoming messagetype>-ACK	NOMMSEDI-PTA51-MTA83-ACK

ECP/EDX configuration

ECP Network

These messages will be sent via the NEM ECP Network. The messages will be plain EDIFACT messages, with headers for message type and message id.

Services.

Operationally critical (Driftskritisk)

We have defined the following services for the EDIFact messages:

Environment	Receiver
Production	SERVICE-NO-EDIFACT-DK
Test	SERVICE-NO-EDIFACT-DK

For more information on how to configure EDX and services, se chapter 13 in:
https://ediel.org/wp-content/uploads/2025/08/NEX-Installation-and-Upgrade-Guide-for-an-ECP-and-EDX-endpoint-in-NEM-v4.16.0.1.pdf

Sending messages to Statnett:

Messages must be sent to Statnett the following way:

- Receiver: SERVICE-NO-EDIFACT-DK
- MessageType: see the **ECP Businnes type** column in the chapter Messages above.
- BA-Message ID: The message id from the EDIFact **BGM** segment.

Receiving messages from Statnett:

Messages will be sent out the following way;

- Messages will be sent to your ECP endpoint and tagged with the EDX-service NO-EDIFACT-DK
- MessageType: see the **ECP Businnes type** column in the chapter Messages above.
- BA-Message ID: The message id from the EDIFact **BGM** segment.