

New Message Request**EDIFACT USE ONLY**

Please return to: Alain Dechamps EEG1 SECRETARIAT EBES c/o CEN 36, rue de Stassart B - 1050 Brussels
--

Log: WE- Date: Requestor:

Originator Name Ove Nesvik	Company/Organisation Ediel Nordic Forum	Phone/Telex/Fax (incl. Country code) (+47) 22 42 13 80
Address: EdiSys AS Øvre Slottsgt. 17 N-0157 Oslo		

Code Category:	
Directory Issue D.98B	Target dir.

Name INFCON Infrastructure Condition Message	Suggested Representation
---	---------------------------------

Description:

A message sent by a responsible party to other interested parties regarding the condition of a component in a commercial services or utilities infrastructure.

An Infrastructure Condition message concerning an infrastructure component may be sent:

- To notify scheduled downtime
- To notify unscheduled downtime
- To forecast availability
- On the occurrence of a selected event

The message may be an initial message and does not require a response.

The message contains condition, availability or other management information in coded and free text format.

This message is typically used in cases where a component in a network is taken down for repair or has broken down, for example:

- Information about interruption or planned maintenance in a power grid
- Information about the condition of components in gas or oil supply lines
- Road traffic management
- Air traffic management
- Telephone network
- Value added networks (VAN)

Business Need:

In the power market there is a need to inform the participants about components in the power grid that are down. Components could be transformer stations, parts of the grid, etc. The reason for the downtime could be faults or planned repair.

When a major component in the grid is down it may be necessary to increase or decrease the production of power in different power plants. In addition there is a need for the players at the power exchange to know the status of the grid when making bids for buying or selling of power.

The Infrastructure Condition message has been build up in a general manner, such that it can also be used in other markets or businesses.

UN/EDIFACT

NEW MESSAGE REQUEST (NMR)

Infrastructure Condition Message

Message Type : INFCON
Version : D
Release : 99B
Contr. Agency: UN

Revision : 0
Date : 98-11-20

SOURCE: Ediel Nordic Forum

CONTENTS

Infrastructure condition message

- 0. INTRODUCTION
- 1. SCOPE
 - 1.1 Functional definition
 - 1.2 Field of application
 - 1.3 Principles
- 2. REFERENCES
- 3. TERMS AND DEFINITIONS
 - 3.1 Standard terms and definitions
- 4. MESSAGE DEFINITION
 - 4.1 Data segment clarification
 - 4.2 Data segment index (alphabetical sequence)
 - 4.3 Message structure
 - 4.3.1 Segment table

For general information on UN Standard Message types see UN Trade Data Interchange Directory, UNTDID, Part 4, Section 2.6, UN/ECE UNSM General Introduction.

0. INTRODUCTION

This specification provides the definition of the Infrastructure Condition message (INFCON) to be used in Electronic Data Interchange (EDI) between trading partners involved in administration, commerce and transport.

1. SCOPE

1.1 Functional Definition

A message sent by a responsible party to other interested parties regarding the condition of a component in a commercial services or utilities infrastructure.

1.2 Field of Application

The UN Standard Infrastructure condition message may be used for both national and international applications. It is based on universal commercial practice related to administration, commerce and transport, and is not dependent on the type of business or industry.

1.3 Principles

An Infrastructure Condition message concerning an infrastructure component may be sent:

- To notify scheduled downtime
- To notify unscheduled downtime
- To forecast availability
- On the occurrence of a selected event

The message may be an initial message and does not require a response.

The message contains condition, availability or other management information in coded and free text format.

This message is typically used in cases where a component in a network is taken down for repair or has broken down, for example:

- Information about interruption or planned maintenance in a power grid
- Information about the condition of components in gas or oil supply lines
- Road traffic management
- Air traffic management
- Telephone network
- Value added networks (VAN)

2. REFERENCES

See UNTDID, Part 4, Chapter 2.6 UN/ECE UNSM - General Introduction, Section 1.

3. TERMS AND DEFINITIONS

3.1 Standard terms and definitions

See UNTDID, Part 4, Chapter 2.6 UN/ECE UNSM - General Introduction, Section 2.

4. MESSAGE DEFINITION

4.1 Data Segment Clarification

This section should be read in conjunction with the Segment Table which indicates mandatory, conditional and repeating requirements.

4.1.1 Header section

Information to be provided in the Header section:

0010 UNH, Message header

A service segment starting and uniquely identifying a message. The message type code for the Infrastructure Condition message is INFCON.

Note: Infrastructure Condition messages conforming to this document must contain the following data in segment UNH, composite S009:

Data element	0065 INFCON
	0052 D
	0054 99B
	0051 UN

0020 BGM, Beginning of message

A segment by which the sender uniquely identifies the Infrastructure Condition message by means of its name and number and when necessary its function.

0030 DTM, Date/time/period

A segment specifying general dates and, when relevant, times related to the whole message. The segment must be specified at least once to specify the message date as allocated by the sender.

0040 FTX, Free text

A segment with free text information, in coded or clear form, used when additional information is needed, which is relevant for all components described in the actual message but cannot be accommodated within other segments.

0050 Segment group 1: RFF-DTM

A group of segments for giving references and where necessary, their dates, relating to the whole message.

0060 RFF, Reference

A segment identifying a reference by its type and number.

0070 DTM, Date/time/period

A segment specifying the date/time related to the referenced information.

0080 Segment group 2: NAD-SG3

A group of segments identifying the parties with associated information relevant to the whole message.

0090 NAD, Name and address

A segment identifying names and addresses of the parties, in coded or clear form, and their functions relevant to the message. At least one NAD-segment is required. This will normally be the party responsible for the component(s) described. It is recommended that, if possible, only the coded form of the party ID should be specified.

- 0100 Segment group 3: CTA-COM
A group of segments giving contact details of a specific person and/or department within the party identified in the NAD segment.
- 0110 CTA, Contact information
A segment to identify a person and/or department, and their function, to whom communications should be directed.
- 0120 COM, Communication contact
A segment to identify a communication type and number for the contact specified in the CTA segment.
- 4.1.2 Detail section
- Information to be provided in the Detail section:
- 0130 Segment group 4: LOC-DTM-NAD-FTX-SG5-SG6-SG7
A group of segments identifying the component being reported. This includes the party responsible for the component, the physical characteristics of the component, the reason for the downtime and the scheduled downtime of the component.
- 0140 LOC, Place/location identification
A segment to identify the component being reported. It is recommended that where possible codes should be used to identify the component to facilitate automatic processing.
- 0150 DTM, Date/time/period
A segment to specify dates associated with the downtime, availability or occurrence of an event connected to the component.
- 0160 NAD, Name and address
A segment to identify parties and, or addresses related to the component (e.g. installation address).
- 0170 FTX, Free text
A segment with free text information, in coded or clear form, used when additional information on the downtime, availability or occurrence of an event connected to the component is needed but cannot be accommodated within other segments. In computer to computer exchanges such text will normally require the receiver to process this segment manually.
- 0180 Segment group 5: CCI-CAV
A group of segments providing characteristics and characteristic details of the component.
- 0190 CCI, Characteristic/class id
A segment to identify characteristic and/or the characteristic name and characteristic relevance for the component.
- 0200 CAV, Characteristic value
A segment to specify characteristic of the component, by value in either coded form or in free format.
- 0210 Segment group 6: QTY-DTM
A group of segments to provide quantity change or other relevant quantities for the specified component and, where relevant, related date and time information for example indication of capacity within a given period.

- 0220 QTY, Quantity
A segment to specify quantities related to the component.
- 0230 DTM, Date/time/period
A segment indicating date or time details relating to the quantity, for example indication of capacity within a given period.
- 0240 Segment group 7: SCC-DTM
A group of segment specifying schedules related to the downtime, availability or occurrence of an event connected to the component.
- 0250 SCC, Scheduling conditions
A segment specifying the type and status of the schedule being given, and optionally defining a pattern to be established, e.g. proposed schedule for the downtime, availability or occurrence of an event connected to the component.
- 0260 DTM, Date/time/period
A segment indicating the date/time details relevant to the schedule details in the SCC segment. This segment may be used to indicate date/time ranges.

4.1.3 Summary section

Information to be provided in the Summary section:

- 0270 UNT, Message trailer
A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

4.2 Data segment index (Alphabetical sequence by tag)

BGM	Beginning of message
CAV	Characteristic value
CCI	Characteristic/class id
COM	Communication contact
CTA	Contact information
DTM	Date/time/period
FTX	Free text
LOC	Place/location identification
NAD	Name and address
QTY	Quantity
RFF	Reference
SCC	Scheduling conditions
UNH	Message header
UNT	Message trailer

4.3 Message structure

4.3.1 Segment table

Pos	Tag	Name	S	R
HEADER SECTION				
0010	UNH	Message header	M	1
0020	BGM	Beginning of message	M	1
0030	DTM	Date/time/period	M	9
0040	FTX	Free text	C	9
0050		----- Segment group 1 -----	C	9-----++
0060	RFF	Reference	M	1
0070	DTM	Date/time/period -----	C	9-----++
0080		----- Segment group 2 -----	M	99-----++
0090	NAD	Name and address	M	1
0100		----- Segment group 3 -----	C	99-----++
0110	CTA	Contact information	M	1
0120	COM	Communication contact -----	C	99-----++
DETAIL SECTION				
0130		----- Segment group 4 -----	M	999-----++
0140	LOC	Place/location identification	M	1
0150	DTM	Date/time/period	C	9
0160	NAD	Name and address	M	9
0170	FTX	Free text	C	9
0180		----- Segment group 5 -----	C	9-----++
0190	CCI	Characteristic/class id	M	1
0200	CAV	Characteristic value	C	10-----++
0210		----- Segment group 6 -----	C	9-----++
0220	QTY	Quantity	M	1
0230	DTM	Date/time/period -----	C	9-----++
0240		----- Segment group 7 -----	C	9-----++
0250	SCC	Scheduling conditions	M	1
0260	DTM	Date/time/period -----	C	9-----++
SUMMARY SECTION				
0270	UNT	Message trailer	M	1