



**E-CONTROL**

# **Electricity Market Code**

## **Chapter 11**

**Data format for the transmission of smart meter data  
from network operators to electricity suppliers**

**pursuant to section 2 *Datenformat- und  
Verbrauchsinformationsdarstellungs-VO*  
(Data Format and Consumption Data Ordinance)  
2012**

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## Document history

Version	Release	Publication	Entry Into Force	Notes
1	0	23/05/2013	Applies from 01/07/2013 pursuant to section 8(1) Data Format and Consumption Data Ordinance 2012	First version
1	1	13/05/2015	No entry into force	Data transmission; update of customer processes overview
1	2	28/08/2015	01/01/2016	Point 5 deleted; entry into force postponed

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## 1 Introduction

Pursuant to the *Elektrizitätswirtschafts- und -organisationsgesetz* (Electricity Act) 2010 and the *Datenformat- und Verbrauchsinformationsdarstellungs-Verordnung* (Data Format and Consumption Data Ordinance) 2012, network operators submit all daily consumption data of consumers equipped with smart meters to the respective suppliers once a month. These data must be submitted in a harmonised and standardised format.

The ongoing implementation process may require immediate changes to this format. In order to provide for a dynamic and practicable implementation, it is sensible that the format be specified by E-Control together with the market participants as part of the larger amendment process for the Market Rules.

Chapter 11 of the Electricity Market Code describes the standardised data format to be applied, as well as general rules for the transmission of data between network operators and suppliers.

The latest version of this document agreed upon in the working group, including all annexes, is published on the E-Control website.

## 2 Transmission of consumption data

### 2.1 Basic principles

The transmission of data must comply with the state of the art, it must be encrypted and secured,<sup>1</sup> and the data must lend itself to automated processing. All data exchange systems<sup>2</sup> must be fully compatible with those already in place, i.e. they must enable easy exchange of data between the market participants.

### 2.2 Secure data transmission

Pursuant to section 2(1) Data Format and Consumption Data Ordinance 2012, any data transmitted by the network operator to the supplier must be protected from access by third parties and encrypted in compliance with the state of the art.

A state-of-the-art advanced digital signature ensures the integrity of consumption data and the sender's identity.

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<sup>1</sup> The sender's identity must be authenticated.

<sup>2</sup> For instance, the following data exchange systems may be used (as of 30 April 2015): EDA (standardised data exchange in the Austrian energy sector), ENERGYlink / Self Storage.

There are service providers that offer full and compatible interfaces and links with these platforms.

## 2.3 Convention for the creation of file names

In order to create unique file names and facilitate the administration of sent and received files, the following convention applies when creating file names:

Sender\_Recipient\_TimeStamp\_MessageNumber

Sender	sender's name (EC number)
Recipient	recipient's name (EC number)
Time stamp	year, month, day and local time at which the file was created; format: YYYYMMDDHHMMSS
MessageNumber	automatically generated number to which references are made in case of cancellation

Character set for file names: [A-Z][a-z][0-9]"-,"\_“

## 2.4 Transmission deadline

The consumption data must be transmitted monthly according to the respective legal provisions.

# 3 Format

## 3.1 Current version

The data format to be used for the transmission of consumption data is the currently applicable and approved XML schema "ConsumptionRecord" which was created by the Austrian electricity industry and is published on the E-Control website [www.e-control.at](http://www.e-control.at) (in German only).

## 3.2 Amendments

Once a new version has become effective, data transmission in the previous format is no longer admissible. This chapter of the Electricity Market Code, the XML schema described herein, and the documentation can only be amended as part of E-Control's larger amendment process for the Market Rules.

However, implementation of the electronic transmission of consumption data may require immediate changes to these documents. In order to facilitate any necessary changes to this chapter of the Electricity Market Code, amendments that do not entail significant changes may be fast-tracked instead of following the general procedure used for the Market Rules.

## 3.3 Submission of proposals for amendments

Proposals for amending chapter 11 can be submitted to E-Control by Oesterreichs Energie or individual market participants.

### **3.4 Publication on the E-Control website**

The applicable version of the XML schema, which has been agreed upon by the working group, and any related documentation are published on the E-Control website [www.e-control.at](http://www.e-control.at) (in German only).

### **3.5 Version control**

In order to guarantee future traceability and formal correctness of transmitted data, the following version control convention applies:

- Changes of the second decimal place indicate corrections of errors.
- Changes of the first decimal place indicate the addition or removal of individual elements.
- Changes of the units and tens indicate greater amendments.

### **3.6 XML schema**

The XML schema to be used is published on the E-Control website [www.e-control.at](http://www.e-control.at) (in German only).

### **3.7 Schema description**

The current description of the XML schema “ConsumptionRecord” is published on the E-Control website [www.e-control.at](http://www.e-control.at) (in German only).

## **4 Annex**

### **4.1 Current version of the ConsumptionRecord XML standard**

The current version of the ConsumptionRecord XML standard for the transmission of consumption data is version 1.10. It is available from the E-Control website [www.e-control.at](http://www.e-control.at).

Link: <http://www.e-control.at/de/recht/marktregeln/sonstige-marktregeln-strom> (German only)

### **4.2 Current version of the documentation of the ConsumptionRecord XML standard**

The current version of the documentation regarding the ConsumptionRecord XML standard for the transmission of consumption data is version 1.00. It is available from the E-Control website [www.e-control.at](http://www.e-control.at).

Link: <http://www.e-control.at/de/recht/marktregeln/sonstige-marktregeln-strom> (German only)