# **EcoStruxure Building Operation**

### **EVCE SmartConnector**

### **Installation & User Guide**

February 2025



Life Is On Schnei





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## **1 Functional Overview**

The EVCE Smart Connector interface is a middleware application that enables communication between EVCE REST API service with EcoStruxure Building Operation via EcoStruxure Web Services (EWS).

The Smart Connector EVCE interface communicates with the EVCE REST API to get information about the Zones, Stations, and Connectors. Data is periodically updated and stored within EcoStruxure Web Services (EWS).

The EVCE Smart Connector Interface communicates with EcoStruxure Building Operation to SET the Zone Reduction and Validity for each Zone and SET the availability of the Connector.

The EVCE Smart Connector Interface creates History Items to log the active energy, total active power, average rms current and overall consumption for each phase at Station and Zone level. Alarms are also created for each Station and will be triggered for various connector statuses with corresponding priority and category.

The processor leverages the SmartConnector Service framework and details of the application (release history, installation notes etc.) are available separately and are not covered in this manual.

The SmartConnector application is licensed on a single server basis but may also be configured to connect to both Automation Server (AS-P) devices as well as Enterprise Servers (ES).

# 2 Restrictions & Limitations

### 2.1 SmartConnector Service Version

The processors have been configured to operate with the SmartConnector version 2.5.5.40 or greater, use with any other version of the SmartConnector framework is not supported.

### 2.2 EWS Supported Systems

The processors can support EcoStruxure systems operating with the EcoStruxure Web Services (EWS) protocol v1.1 and v1.2.

### 2.3 EVCE Supported System

The SmartConnector has been tested and validated against the EVCE REST API V6.

Other versions may cause issues and are not supported. Please check with your supplier.

# 3 Installation

Please refer to the SmartConnector Installation and Configuration Guide.pdf for guidance on SmartConnector installation.

To deploy the EVCE SmartConnector assembly, copy the files,



into the service installation directory. Normally "C:\Program Files (x86)\Schneider Electric\SmartConnector"

# 4 Configuration & Settings

### 4.1 Processor Configuration

With a default installation of Smart Connector, the configuration pages for the server can be reached at the following address on the server the service has been installed on:

#### http://localhost:8082/

D localh	nost:8082/status	▼ C Q Sear	rch ☆ 自	+ A C
	Status Configura	tions	About Logged in	n as admin <del>-</del>
-				
Sta	atus			
Refree	sh C			
Dece		inter Conferentian Demonto - EW	C. Comme De sur sta	
Proc	essor Inreads Active Endpo	oints Configuration Requests EW	S Server Requests	
#	Status	Elapsed Time (hh:mm:ss)	Processor Configuration	
1	Waiting For Work			
2	Waiting For Work			
3	Waiting For Work			
4	Waiting For Work			
5	Waiting For Work			
		5 items present		
S-	hneider			

# Adding the Custom Assembly to the Service

1) Switch to the Configurations tab and select Processor and click on Add New +



2) There are three Processors that needs to be added for the EVCE Smart Connector Extension.

#### First Processor-

At the Add Configuration window

 Pick an assembly, select the reference to "ISC.SmartConnector.EvceApiExtension" (this will be highlighted green when selected)

Status Configurations - EWS Servers Setup - About	Logged in as admin +
Add Processor Configuration	
Back Next Cancel	
Step 1 - Pick an assembly	
ISC.SmartConnector EvceApiExtension	2 candidates
Mongoose.Process	(3 candidates)
SmartConnector.Utilities	1 candidates
SmartConnectorWeatherExtension	2 candidates
Assembly Description	
Assembly Company	
Assembly Copyright	
Copyright © 2023	
Assembly Version	
1.0.0	

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- 2) Select Next
- 3) Choose a Class

4.2

#### 4) Ensure the class

"ISC.SmartConnector.EvceApiExtension.Processor.EvceSetupProc essor" is selected first



- 5) Select Next and proceed to
- 6) Name Configuration

Enter a meaningful name and description for the Processor which will enable you to identify this process in the configuration window later.

7) Select Finish and proceed to the Configuration screen.

Status Configurations - EWS Servers St	tup + About	Logged in as admin +
Processor Configuration		
Edit All 🕼 Start 🕨 Validate 🗳 Reset Counter 🎱 Reset Timer 🕻		
Name	Is Active	
EVCE Setup Processor	Cí True	• 6
Description		
Pulls data from EVCE API server and saves data into Ews		c.
Processor Details Control History Schedule Class Name		
ISC.SmartConnector.EvceApiExtension.Processor.EvceSetupProce	ssor	
Assembly File		
ISC.SmartConnector.EvceApiExtension.dll		
Assembly Description		
Assembly Company		
Assembly Copyright		
Copyright © 2023		
Assembly Version		
1.0.0.0		



8) In the configuration window select the Details Tab, you will then be presented with the screen to enter the configuration information. Much of the configuration has default options however, they should be checked and validated for the installation. Edit the applicable fields as follows.

#### Expand EVCE API Config Options field-

#### EVCE Base API URL

The Base URL to connect to the EVCE REST API. By Default, it is <u>https://<EVCE IP:PORT>/api/v2</u>. Note: EVCE API uses port 80 and 443 as standard. So can be left blank.

#### **EVCE Login**

Username needed to access the EVCE API. <u>Note:</u> Credentials/Users are configured within the EVCE Charge controller.

#### **EVCE Password**

Password needed to access the EVCE API.

Expand All Colla	pse All	
Details		
C	Evce Api Config Options	
	Evce Base Api Url *	
	https://10.141.208.26/api/v2	G
	Evce Login *	
	~ Encrypted ~	G
	A Even Password *	

#### Expand EVCE EWS Server field

#### Ews Address

This property should be set to the full address required to access the EWS Server being hosted. This is normally in the case of an EcoStruxure ES or AS device as follows:

http://<IPADDRESS>:<PORT(8093)>/EcoStruxure/DataExchange

#### \*Note that the address is case sensitive!

#### <u>Realm</u>

Realm for the EWS Server.

#### Server Name

This property is just a friendly text name field to allow you to easily identify the specific Endpoint you are configuring.

#### **Username**

This property is required to allow the EWS server connection to be authenticated.

#### Password

As above, this is the password related to the user credentials.

Evce Ews Server	
Ews Address * http://localhost.51358/EcoStruxure/DataExchange	G
Realm	
Кеу	G
Server Name *	
EVCE Ews Server	G
Username *	
admin	G
Password *	
~ Encrypted ~	2

In the configuration window select the Control Tab, you will then be presented with several options to define the Processor's default behavior. It is recommended to set the following:

Runs On Start – Yes (To enable the Processor to automatically start with the machine)

Manually Startable – Yes (To allow a user to start through the configuration window

Manually Stoppable - Yes

If this processor needs to be ran in scheduled interval, navigate to the 'Schedule' tab and in the dropdown select the time interval for which this processor needs to be executed.

Status Configurations	<ul> <li>EWS Servers</li> </ul>	Setup <b>v</b> /	Nout		Logged in as admin 🕶
Processor Configu	uration				
Edit All 🗹 Save 🛓 Cancel 🗲					
Name EVCE Setup Processor			G	Is Active True	* 🖾
Description					
Pulls data from EVCE API server and saves	data into Ews				6
Processor Details Control	History Schedule				
Schedule					
None Selected			*		
None Selected Every 15 Minutes					
Schneider Electric					

#### Adding Custom Schedule Time Interval

1) To Add custom time interval, click on 'Setup' dropdown, and select 'Configuration Schedules'.

<b>S</b>	Status	Configurations +	EWS Servers	Setup+	About		Logged in as admin <del>v</del>
Config	urati	on Sche	dules				
Refresh 🕽 🕠	Add New 🕂						
	Start Tim	ie				Description	
6	07/10/20	24 4:30 PM				Every 15 Minutes	
					1 item present		
Schn	eide	r					

t includes functionality that is covered by pat

- 2) Click on 'Add New'.
- 3) Fill the details -

Description - The time interval to be created. Type - Time Interval, Weekly, Monthly or Cron Interval Gap – If Time Interval is selected in 'Type', mention the gap. Interval Gap Units – Specify the 'Interval Gap' value if its minutes, seconds, hours, or days.

**Configuration Schedule** 

escription *	Start Date*	
Every 30 minutes	09/23/2024 3:00 PM	<b></b>
pe		
Time interval	· · · · · · · · · · · · · · · · · · ·	
terval Gap		
30		
terval Gap Units		
Minutes	•	

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4) Click on Save Button.

After adding the custom scheduler, navigate back to the processor edit screen and click on schedule tab. The custom scheduler should be seen in the dropdown.

Processor Configuration

ame	Is Active	
EVCE Setup Processor	True	• 0
escription		
Pulls data from EVCE API server and saves data into Ews		C
Processor Details Control History Schedule		
Schedule None Selected	-	
None Selected		
Every 15 Minutes		

Select the schedule interval and click on Save.

Navigate to Control Tab and set '**Runs on Schedule**' to True. This should schedule the Processor to run on scheduled interval.

The Save Button allows the process configuration to be saved to the database.



#### A complete configuration will appear as follows:

Expand All Coll	lapse All	
Details		
	G Evce Api Config Options	
	Evce Base Api Url *	
	https://10.141.208.28/api/v2	G
	Evce Login *	
	~ Encrypted ~	G
	✓ Everassion - ~ Encrypted ~	Ø
		ŭ
		G
	Evce Ews Server      Ews Address *      http://localhost.51359/EcoStructure/DataExchange      Realm      Key	ی م
		6 6
	Evce Ews Server      Ews Address *      Http://localhost.51358/EcoStruxure/DataExchange      Realm      Key      Server Name *      EVCE Ews Server	G G G
	Evce Ews Server      Ews Address *      Http://localhost.51358/EcoStruxure/DataExchange      Realm     Key      Server Name *      EVCE Ews Server      Username *	۵ ۵ ۵
	Evce Ews Server      Ews Address *      Http://localhost.51359/EcoStruxure/DataExchange      Realm     Key      Server Name *      EVCE Ews Server      Username *      admin	۵ ۵ ۵ ۵
		0 0 0 0 0 0 0 0 0

#### Data Points updated only on Setup Processor:

#### Zone Level:

- Zoneld ZoneName **ZoneNumberOfStations Station Level:** StationType StationOCPPIdentifier StationSerialNumber StationModel **StationVersion** StationIPAddress StationCpoUrl IsAcceptedByCpo StationFriendlyName **Connector Level:** LogicalConnector ConnectorIsFixedSetPoint ConnectorIsDC ConnectorMaxCurrentorPower
  - ConnectorMaxCurrentorPower ConnectorPhaseConnection

#### Second Processor -

 After adding the first Processor, navigate back to Processor screen to add the second Processor, click on 'Add New' and Select "ISC.SmartConnector.EvceApiExtension" (this will be highlighted green when selected)

Status Configurations - EWS Servers Setup - About	Logged in as admin +
Add Processor Configuration	
Back Next Cancel	
Step 1 - Pick an assembly	
ISC.SmartConnector.EvceApiExtension	2 candidates
Mongoose Process	3 candidates
SmartConnector Utilities	1 candidates
SmartConnectorWeatherExtension	2 candidates

2) Click on Next and select the processor

"ISC.SmartConnector.EvceApiExtension.Processor.EvceProcessor" . This is a long running processor, so we need not set the schedule interval.



 Click on Next and select Finish. Please provide the same EVCE API configuration details and EWS server details, that has been provided to the processor –

"ISC.SmartConnector.EvceApiExtension.Processor.EvceSetupProc essor".

#### Third Processor -

 Navigate back to Processor screen to add the third Processor, click on 'Add New' and Select "ISC.SmartConnector.EvceApiExtension" (this will be highlighted green when selected)

Back Next Cancel			
Step 1 - Pick an assembly			
ISC. SmartConnector. EvceApiExtension	2 candidates		
Mongoose Process	3 candidates		
SmartConnector. Utilities	1 candidates		
SmartConnectorWeatherExtension	2 candidates		

 Click on Next and select the processor "ISC.SmartConnector.EvceApiExtension.Processor.EvceLogsProce ssor". This is a long running processor, so we need not set the schedule interval.



Click on Next and select Finish. Please provide the same EVCE API configuration details and EWS server details, that has been provided to the processor –
 "ISC SmartConnector Even AniExtension Processor Even Setup Processor

"ISC.SmartConnector.EvceApiExtension.Processor.EvceSetupProc essor".

 There is a configuration field for the processor – EvceLogsProcessor, to set the Time Interval for Logging in Minutes. By default, this value is set to 15 minutes.

Processor	Details	Control History Schedule	
Expand	All Collap Details	per AT Dogs Time Interval In Minutes * 15	G
	0	Evce Api Config Options     Evce Ews Server	

 After Adding all the three processors, first step is to run the setup processor –
 "ISC.SmartConnector.EvceApiExtension.Processor.EvceSetupProc essor" only. 6) After Setup processor is executed, we can execute the other two processors –

"ISC.SmartConnector.EvceApiExtension.Processor.EvceProcessor" and

"ISC.SmartConnector.EvceApiExtension.Processor.EvceLogsProce ssor"

- ISC.SmartConnector.EvceApiExtension.Processor.EvceProcessor

   this is long running processor and will update the statuses of zones, stations, and connectors every 15-30 seconds.
- 8) **ISC.SmartConnector.EvceApiExtension.Processor.EvceLogsProce ssor** – this is long running processor which will log the Active Energy, Total Active Power and Average Rms Current values at Zone/Station level for the given time interval.

#### **Data Points Smart Connector Calculates:**

#### **Connector Level**

- ConnectorOverallActivePowerTotal [Connector active Power (Phase1 + Phase2 + Phase3)]
- ConnectorOverallRmsCurrentAverage If Tri-Phase [rms current (Phase1 + Phase2 + Phase3)/3] If Mono [rms current Phase1]

#### Station Level

- StationOverallRmsCurrentPhase1
  [sum of all connector's rms current phase1 present in the station]
- StationOverallRmsCurrentPhase2 [sum of all connector's rms current phase2 present in the station]
- StationOverallRmsCurrentPhase3
  [sum of all connector's rms current phase3 present in the station]
  StationOverallActivePowerPhase1
- [sum of all connector's active power phase1 present in the station] StationOverallActivePowerPhase2
- StationOverallActiveFowerFnase2
   [sum of all connector's active power phase2 present in the station]
- StationOverallActivePowerPhase3
   [sum of all connector's active power phase3 present in the station]
- StationActiveEnergy [sum of all connector's active energy present in the station]
- StationOverallSetPointCurrent
  [sum of all connector's set point current present in the station]

- StationOverallActivePowerTotal [sum of all connector's active power(phase1+phase2+phase3) present in the station]
- StationOverallRmsCurrentAverage [sum of all connector's average rms current present in the station]
- StationNumberOfConnectors [sum of the connectors present in the station]

#### Zone Level:

- ZoneOverallRmsCurrentPhase1
  [sum of all station's rms current phase1 present in the zone]
- ZoneOverallRmsCurrentPhase2
   [sum of all station's rms current phase2 present in the zone]
- ZoneOverallRmsCurrentPhase3
   [sum of all station's rms current phase3 present in the zone]
- ZoneOverallActivePowerPhase1 [sum of all station's active power phase1 present in the zone]
- ZoneOverallActivePowerPhase2 [sum of all station's active power phase2 present in the zone]
- ZoneOverallActivePowerPhase3
   [sum of all station's active power phase3 present in the zone]
- ZoneActiveEnergy
  [sum of all station's active energy present in the zone]
- ZoneOverallSetPointCurrent [sum of all station's set point current present in the zone]
- ZoneOverallActivePowerTotal [sum of all station's active power total present in the zone]
- ZoneOverallRmsCurrentAverage
   [sum of all station's average rms current present in the zone]
- ZoneNumberOfConnectors
   [sum of all the station's connectors present in the zone]

#### Site Level:

- SiteOverallActivePowerTotal [sum of all zone's active power total]
- SiteSetPointPower(kW)
   [sum of all zone's set point power total]
- SiteNumberOfStations
  [sum of all stations present on site]
- SiteNumberOfConnectors [sum of all connectors present on site]
- SiteNumberOfZones [sum of all zones present on site]

Once the Smart Connector EWS Server Interface has been hosted in EcoStruxure Building Operation, the details related to zones, stations, and connectors will be displayed as follows:

#### Zone Values

$\leftarrow \cdot \rightarrow \cdot$	Site Server 🕨 EVCE Server 🕨	EVCE Ews Server 🕨 EVCE Zones 🕨 Z1	•	
ystem Tree	<del>-</del> ↓ ×	<u>Z1</u> ×		
ΥLΤ		List View Properties		
4	Z1	🔁 🕞 😲 🛠 - 🖉 Quick filter	r	
	EVSE-1	Name	Description	Value
	StationAuthentica	👸 EVSimu1	EVSimu1	
	StationDisconnec	OverallConsumptionLogs		
	Station-EVSimu1	Zoneld	Zoneld	1
	StationId StationIPAddress	ZoneMaxCurrent(A)	ZoneMaxCurrent(A)	100 A
	StationIsConnect	Dia ZoneName	ZoneName	Z1
	StationModel	ZoneNumberOfTransactions	ZoneNumberOfTransactions	0 [Offline]
	StationOCPPIder	ZoneOverallActivePowerPhase1	ZoneOverallActivePowerPha	0.00 kW [Offline]
	StationOverallAc	ZoneOverallActivePowerPhase2	ZoneOverallActivePowerPha	0.00 kW [Offline]
	StationOverallAc	ZoneOverallActivePowerPhase3	ZoneOverallActivePowerPha	0.00 kW [Offline]
	StationOverallRn	ZoneOverallRmsCurrentPhase1	ZoneOverallRmsCurrentPhase1	0.00 A [Offline]
	StationOveraliRn	ZoneOverallRmsCurrentPhase2	ZoneOverallRmsCurrentPhase2	0.00 A [Offline]
	StationSerialNurr	ZoneOverallRmsCurrentPhase3	ZoneOverallRmsCurrentPhase3	0.00 A [Offline]
	StationStatus	ZoneReduction	ZoneReduction	10.00
	StationType StationVersion	ZoneReductionDescription	ZoneReductionDescription	external-reduction@bmsApi-1-Z1
	OverallConsumption	ZoneReductionType(Percentage)	ZoneReductionType(Percent	percentage
	Zoneld	ZoneSetPointCurrent(A)	ZoneSetPointCurrent(A)	100 A
	ZoneMaxCurrent(A)		ZonoSotDointDowor/kl/l/	20 KW
	200 ZoneName			55 KW
	ZoneNumberOf Tans	2 Zone i ype	∠one iype	STATIC
	ZoneOverallActivePc	ZoneValidity	ZoneValidity	12/16/2149 8:27:56 AM
	ZoneOverallActivePc	ZoneValidityMode(Absolute)	ZoneValidityMode(Absolute)	absolute

#### **Zone History Items**

← ・ → ・ Site Server ► EVCE Server ►	EVCE Ews Server   EVCE Zones  Z1  OverallConsumptionLogs
System Tree	OverallConsumptionLogs       ×         List View       Properties            ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐          ☐          ☐            ☐          ☐ <td< th=""></td<>
	Name         Description           To ZoneOverallActivePowerPhase1-Readings         Image: Comparison of Comparison o
StationAuthentica     SatisonDisconnece	Image: SoneOverallActivePowerPhase2-Readings     Image: SoneOverallActivePowerPhase3-Readings       Image: SoneOverallActivePowerPhase3-Readings     Image: SoneOverallActivePowerPhase3-Readings
Station - Cosinici Station Id Station IPAddress     Station IsConnect	ZoneOverallRmsCurrentPhase1-Readings     S     ZoneOverallRmsCurrentPhase2-Readings     S
<ul> <li>Mathematical Station Model</li> </ul>	

#### **Station Values**

← ・ → · Site Server ► EVCE Server ►	EVCE Ews Server   EVCE Zones  Z1	► EVSimu1 ►	
System Tree 🗸 🕈 🗙	EVSimu1 ×		
	List View Properties		
A V Site Server	Properties		
▶ 🛐 System	עווכא filte	er	
Servers	Name	Description	Value
Enlighted EM Server			1
EVCE Server			
EVCE Ews Server	OverallConsumptionLogs		
∠ Solution 21	StationAuthenticationMode	StationAuthenticationMode	allow_all
EVSimu1	StationDisconnectedAuthenticati	StationDisconnectedAuthenti	allow_all
OverallConsumptionI	Station-EVSimu1_Alarm	Alarm for Station Status [una	
Zoneld	StationId	StationId	1
ZoneMaxCurrent(A)	StationIPAddress	StationIPAddress	192.168.0.194
ZoneName ZoneNumberOfTrans	StationIsConnected	StationIsConnected	True
ZoneOverallActivePc	StationModel	StationModel	Open OCPP Simulated
	StationOCPPIdentifier	StationOCPPIdentifier	EVSimu1
ZoneOverallActivePc ZoneOverallRmsCuri	StationOverallActivePowerPhase1	StationOverallActivePowerPh	0.00 kW [Offline]
Dev ZoneOverallRmsCuri	StationOverallActivePowerPhase2	StationOverallActivePowerPh	0.00 kW [Offline]
ZoneOverallRmsCuri	StationOverallActivePowerPhase3	StationOverallActivePowerPh	0.00 kW [Offline]
ZoneReduction     Monopology	StationOverallRmsCurrentPhase1	StationOverallRmsCurrentPh	0.00 A [Offline]
Discrete ZoneReductionType(	StationOverallRmsCurrentPhase2	StationOverallRmsCurrentPh	0.00 A [Offline]
ZoneSetPointCurrent	StationOverallRmsCurrentPhase3	StationOverallRmsCurrentPh	0.00 A [Offline]
ZoneSetPointPower(	Station Social Number	Station Corial Number	EV/Pimut
Dia ZoneType		StationSenainumber	EVOIIIIUT
Cone Validity	StationStatus	StationStatus	available
Zone validity Mode(At 72	StationType	StationType	ocpp1.6
⊳ 💽 Z3	StationVersion	StationVersion	1.1.0

#### **Connector Values**

Connector-1 ×		
List View Properties		
🛱 📴 😲 沈 - 🖉 Quick filter		
Name	Description	Value
ConnectorIsDC	ConnectorIsDC	False
ConnectorIsFixedSetPoint	ConnectorIsFixedSetPoint	False
ConnectorMaxCurrentorPower	ConnectorMaxCurrentorPower	32 A
ConnectorOverallActivePower1	ConnectorOverallActivePower1	0.13 kW
ConnectorOverallActivePower2	ConnectorOverallActivePower2	0.00 kW
ConnectorOverallActivePower3	ConnectorOverallActivePower3	0.00 kW
ConnectorOverallActivePowerTotal	ConnectorOverallActivePowerTotal	0.13 kW
ConnectorOverallRmsCurrentAverage	ConnectorOverallRmsCurrentAverage	0.58 A
ConnectorOverallRmsCurrentPhase1	Connector Overall Rms Current Phase 1	0.58 A
ConnectorOverallRmsCurrentPhase2	ConnectorOverallRmsCurrentPhase2	0.00 A
ConnectorOverallRmsCurrentPhase3	ConnectorOverallRmsCurrentPhase3	0.00 A
ConnectorPhaseConnection	ConnectorPhaseConnection	mono1
ConnectorSetPointCurrent	ConnectorSetPointCurrent	32 A
ConnectorSetPointPower	ConnectorSetPointPower	7 kW
ConnectorState_Available	ConnectorState_Available	True
ConnectorState_Charging	ConnectorState_Charging	False
ConnectorState_Faulted	ConnectorState_Faulted	False

# 5 **Revision History**

Version	Assembly File Details	Date
1.2.0.6	ISC.SmartConnector.EvceApiExtension.dll	12 <sup>th</sup> February 2025

#### Assembly files required:



## 6 References

SmartConnector Installation and Configuration Guide.pdf (TDS-M-INSTALLCONFIG-US.BU.N.EN.12.2017.2.30.CC)

SmartConnector Version 2.2 Release Notes.pdf (TDS-M-RELEASENOTES-US.BU.N.EN.12.2017.2.30.CC)

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