Author Natalie Samovich

Entity ENERCOUTIM

TOWARDS EVOLVING P2P ENERGY MODELS

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H2 IBERIA

SOLAR SYNERGY GROUP

ENERCOUTIM
ALCOUTIM SOLAR ENERGY ASSOCIATION

RE Resilient Energy

DEMONSTRATION PLATFORM

SOLAR LAB

PEARLS

VICINITY 2020

SHAR-Q

ENERCOUTIM
ALCOUTIM SOLAR ENERGY ASSOCIATION

RESEARCH & INNOVATION H2020

VICINITY 2020
SHAR-Q

PILOTING
DEMONSTRATION

SOLAR COVE

INFRA AND SERVICES
42HA
4MW

DEMO PLATFORM

DEVELOPING HYDROGEN ECONOMY ECOSYSTEM

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FOCUS

DER RES
ENERGY INNOVATION
DIGITAL ENERGY SOLUTIONS
IOT
ENERGY STORAGE

PLUG & DEMONSTRATE TECHNOLOGY INFRASTRUCTURES

TEAM EXPERTISE

- RES SYSTEMS DEVELOPMENT OPERATIONS AND MANAGEMENT
- RESEARCH & INNOVATION
- SCIENTIFIC COMUNICATION AND BRANDING

THE FUTURE OF DIGITAL ENERGY IS HERE

COLLABORATE

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AIOTI

ETIP SNET
EUROPEAN TECHNOLOGY AND INNOVATION PLATFORM
SMART NETWORKS FOR ENERGY TRANSITION

smartEn
Smart Energy Europe

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The 5 Ds of the Energy Transition
Why P2P models in the Energy sector matter

DECENTRALISATION
DECARBONISATION
DEMOCRATISATION
DEREGULATION
DIGITALISATION

Consumer Positioning Progression

Energy users

Prosumer

Customer

Consumer

Imbalances in the grid

345502993

A metering point

An object

The subject

The transition medium

Next: digital ID and access rights holder?

Image and the related research Credit to Thomas N. Mikkelsen, VAASA ETT

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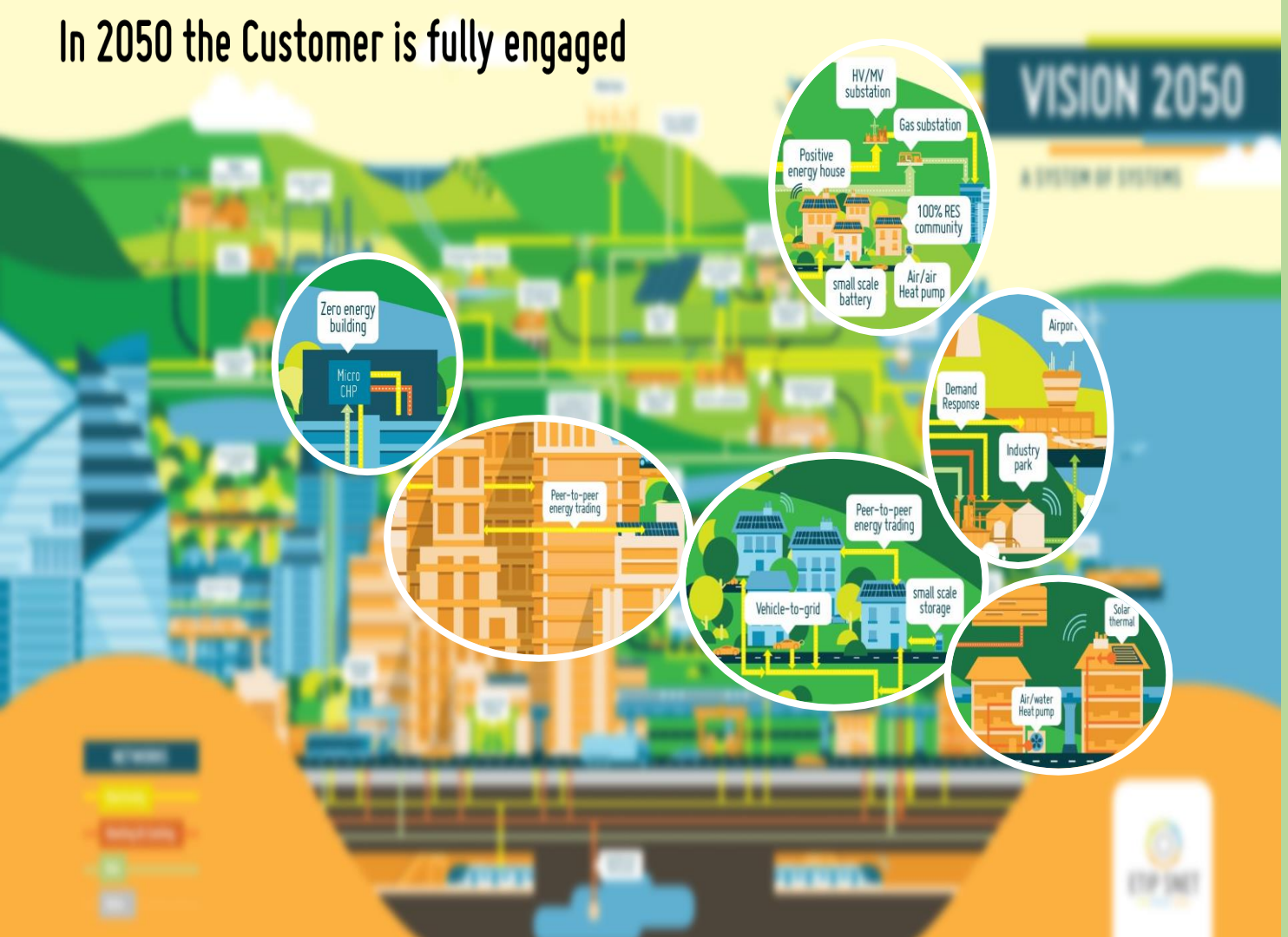
In 2050 the Customer is fully engaged

In 2050 the Customer is fully engaged



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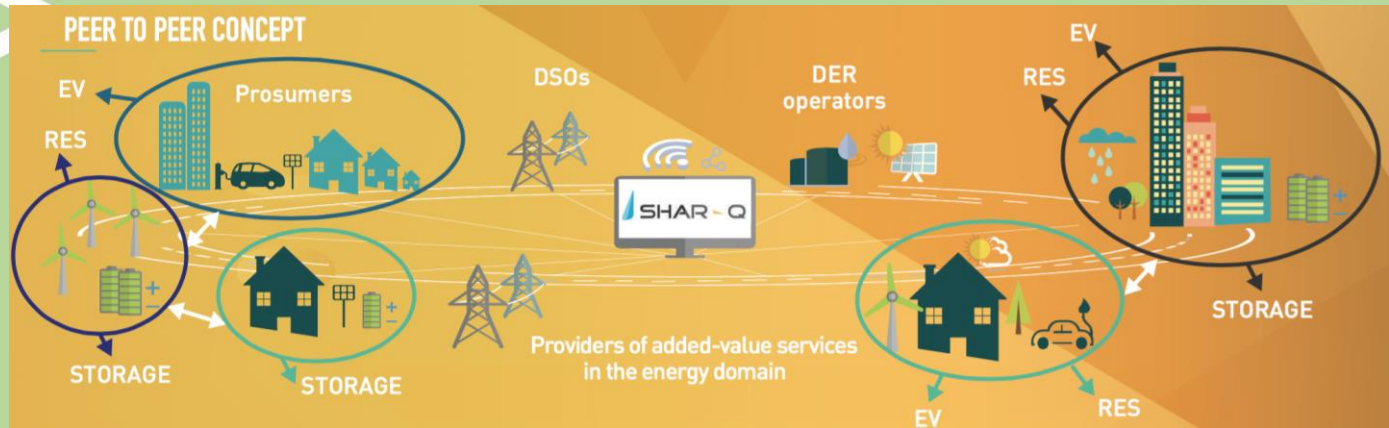
Energy System in Transition
SHAR-Q and VICINITY approach

1. Decentralised and smarter system
2. Low carbon energy generation
3. New modes and levels of interaction and management
4. New transmission, generation and balancing technologies and services



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VICINITY 2020

VICINITY project

www.vicinity-h2020.eu

Service for semantic cross domain interoperability

- Common ontology model based on existing standards
- Standards being updated/maintained in the cloud
- Open integration API
- Transparent ecosystems - virtual neighbourhood
- Value-added services; 3rd party, AI algorithms – monitoring – data mining, prediction, optimizing

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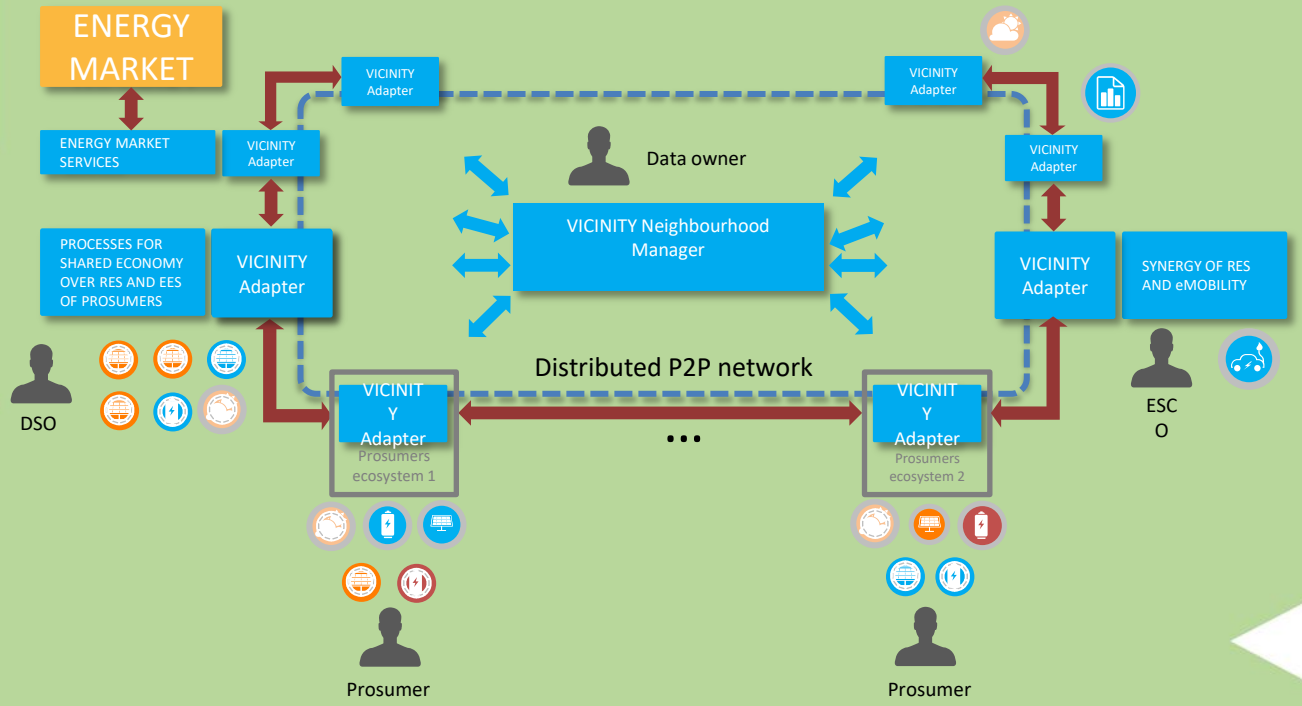
Peer-to-peer network integration of ecosystems and value-added services in DER



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SHAR-Q

SHAR-Q project

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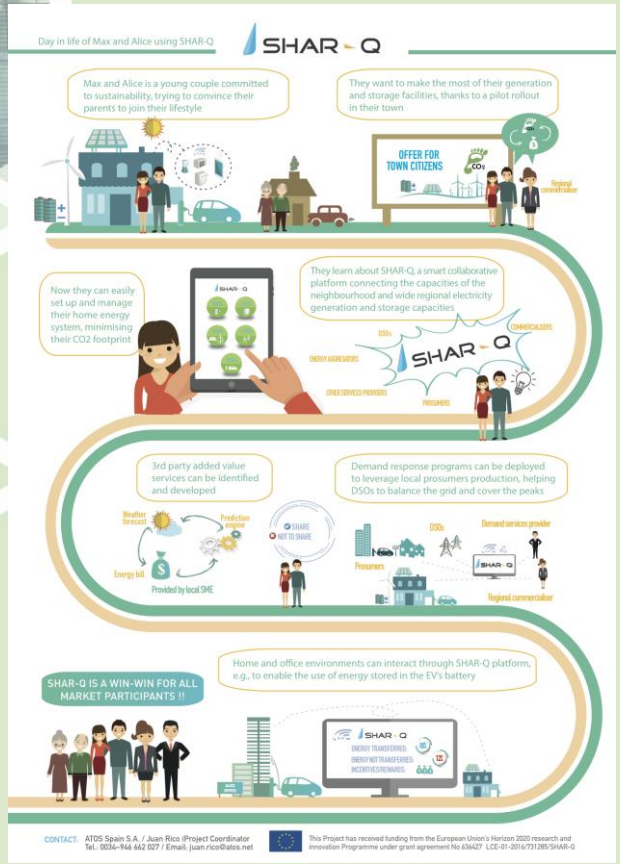
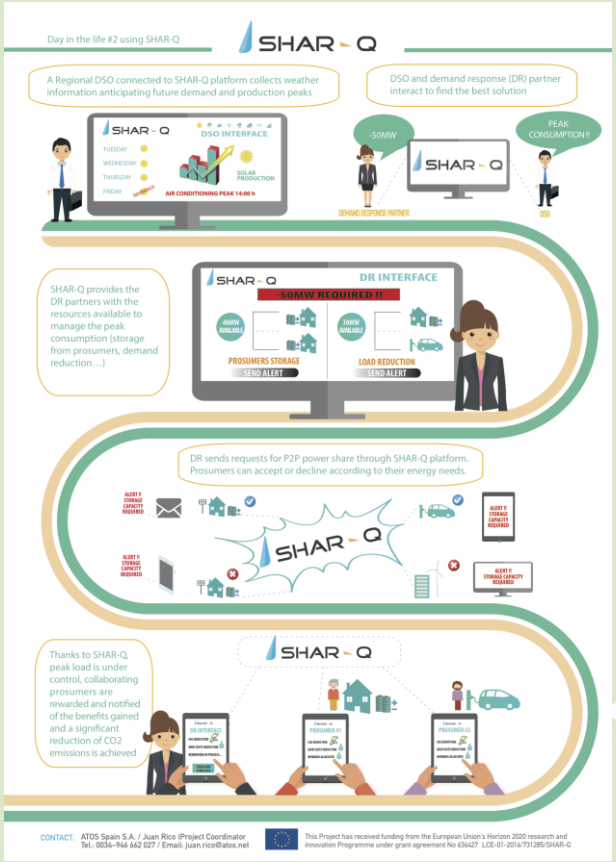
DILO
PROSUMER perspective



DILO GRID
OPERATOR perspective



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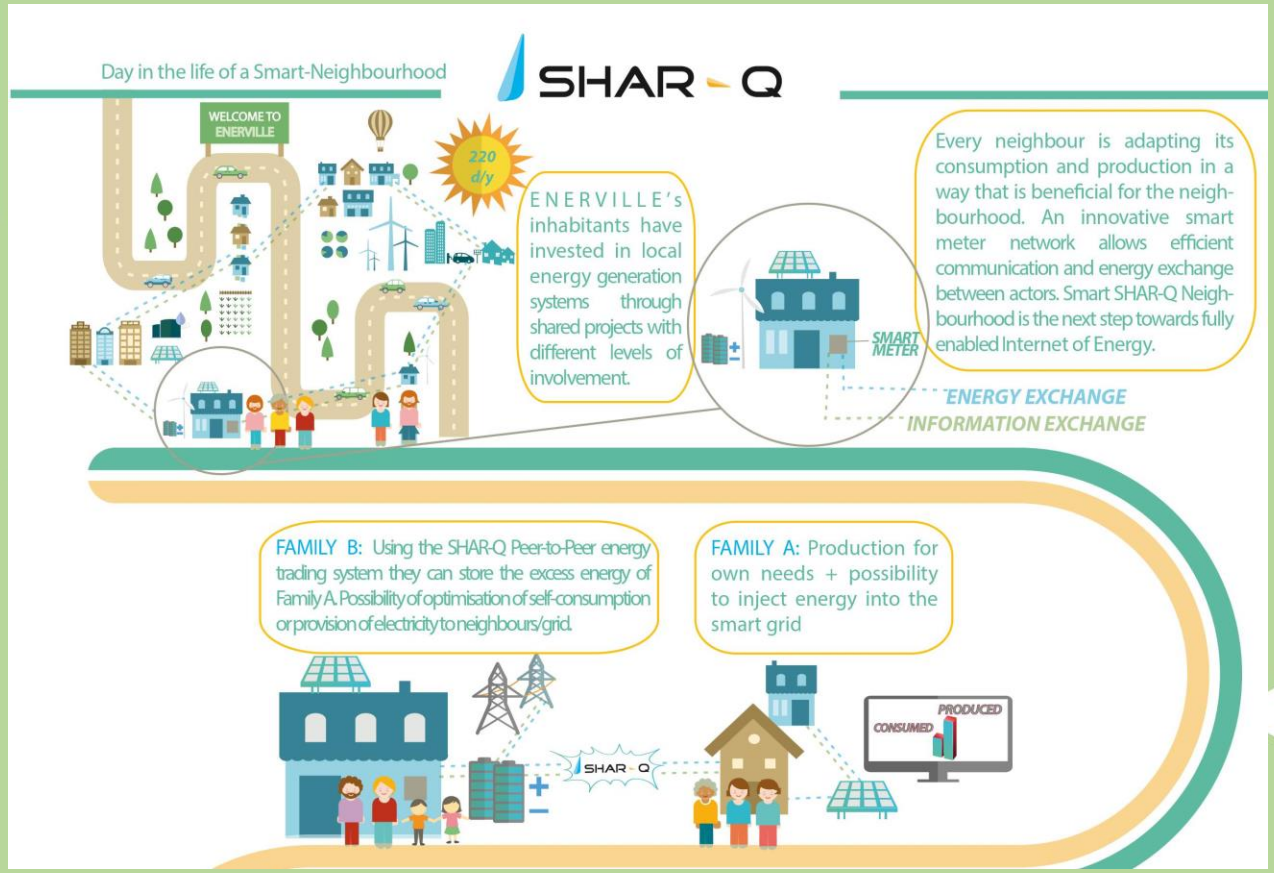
DILO
Smart Neighbourhood



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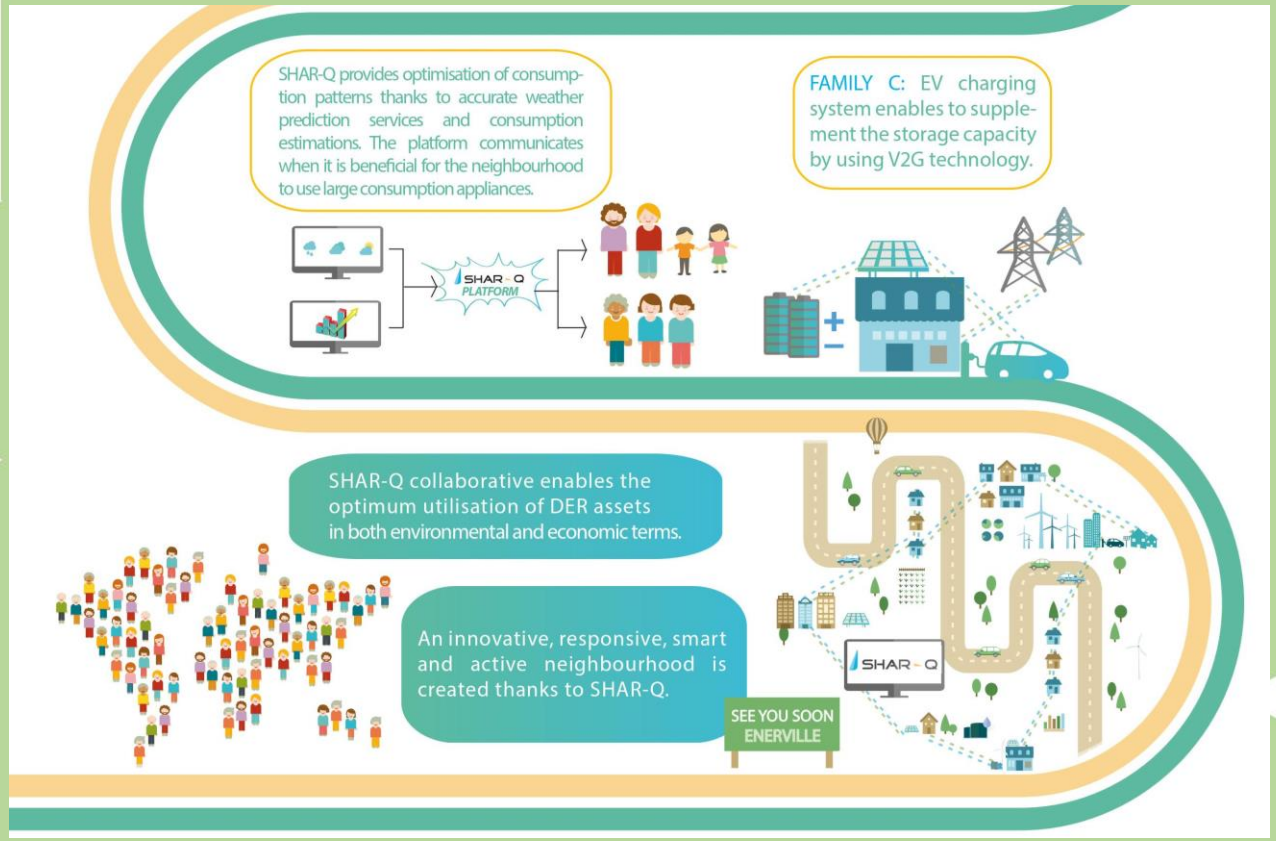
DILO
Smart Neighbourhood



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Four types of IoT Business models:

1. Anything as a Services

2. Multi Sided Market

3. Partnerships / Barter /Reciprocity

4. Freemium

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Natalie Samovich

THANK YOU FOR YOUR ATTENTION!

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