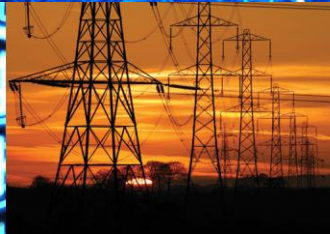
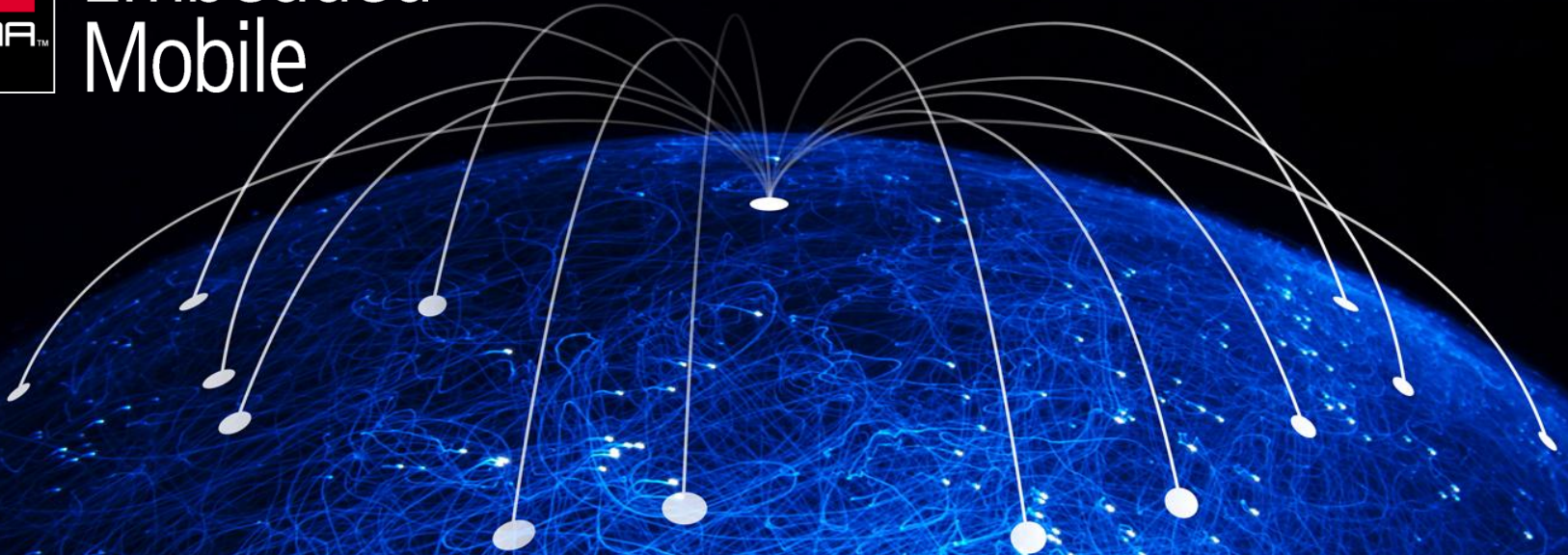




Embedded Mobile



GSMA Embedded SIM – MWC14 Ian Pannell – Chief Engineer GSMA

Accelerating growth and operational efficiency in the M2M world

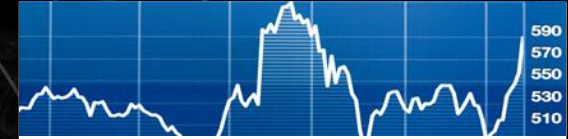
Introducing the GSMA Embedded SIM



The GSMA Embedded SIM has been developed to promote a common global remote provisioning architecture for the new era of machine to machine technology.



Backed by the world's largest mobile providers and endorsed by the world's largest SIM suppliers, this is a technical specification that will enable 'over the air' installation and management of operator profiles.



This specification will accelerate the M2M market and increase opportunities for operators and M2M customers around the globe by reducing costs and improving flexibility and efficiency as it drives the economies of scale.

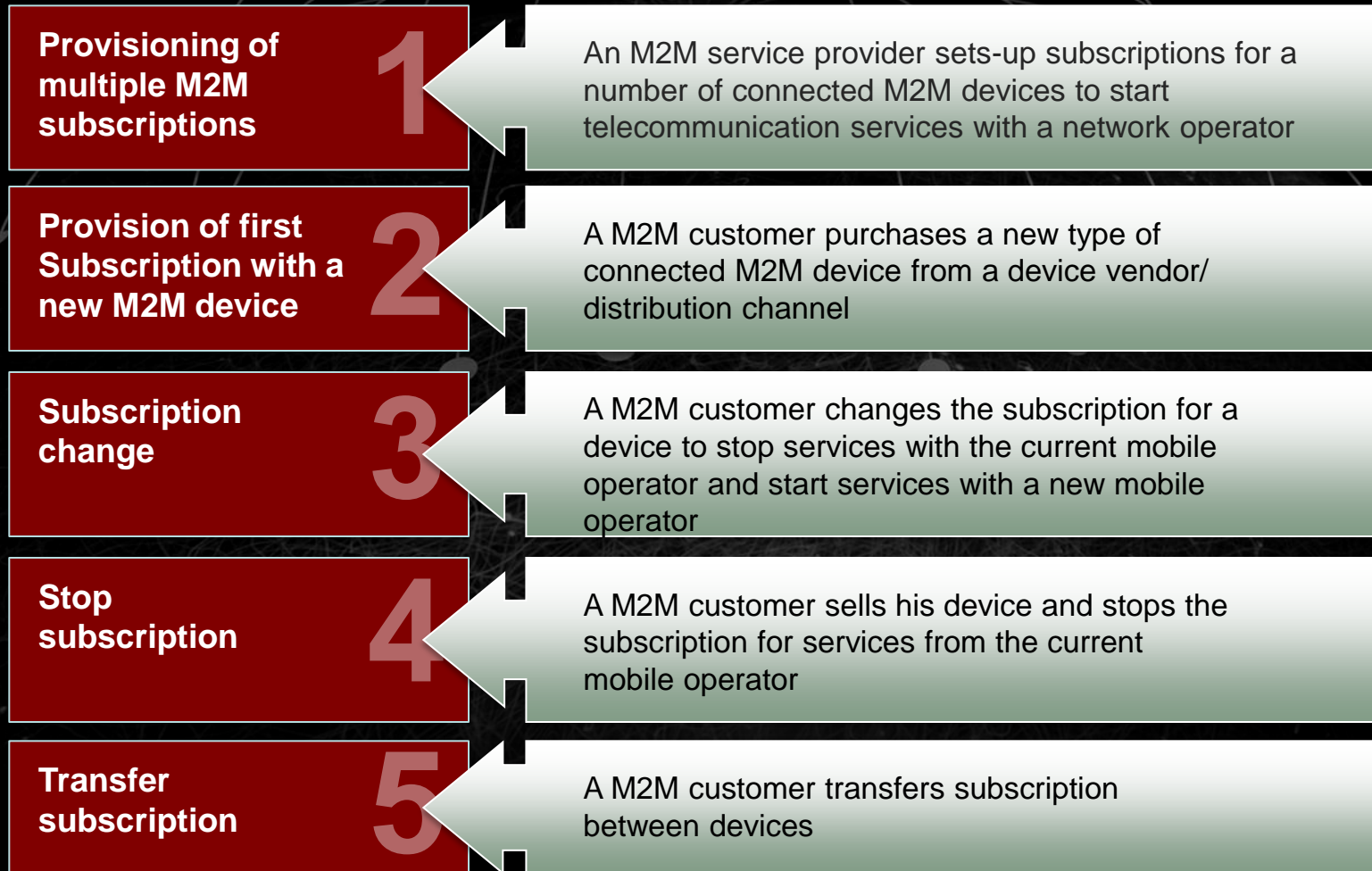
Broad industry support



- GSMA is working in partnership with leading mobile operators and SIM suppliers worldwide. Specification supported by:



Uses of Embedded SIM Specification



Accelerating growth and operational efficiency in the M2M world

The Elements Involved



Embedded SIM

- Functionally identical to a traditional SIM
- At manufacture will have a 'provisioning profile' assigned with secret keys that allows the associated subscription manager to download and manage 'operational profiles' on the eUICC
- The technical specification can accommodate both an initial declaration of the MNO in the eUICC, as well as the selection of a new MNO later. The implementation will depend upon the commercial agreement between the operators and their customers

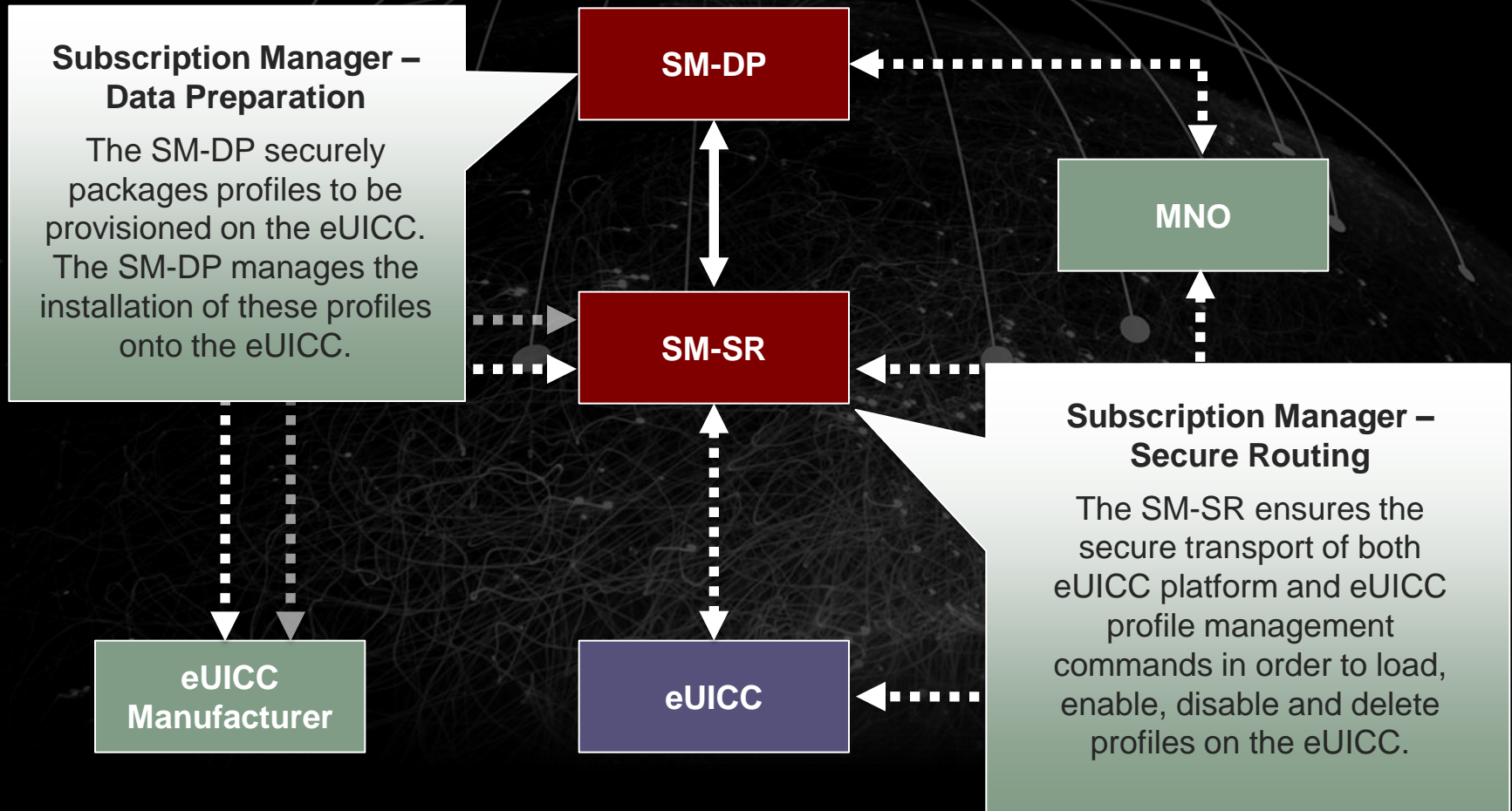
Subscription Manager

- Manages the embedded SIM by**
- Generating SIM profiles in real-time
 - Management and execution of MNO policy
 - Secure routing profiles to the embedded SIM

MNO

- Uses subscription manager to manage profiles
- Maximum re-use of existing provisioning interfaces and processes

Embedded SIM Basic Architecture



Embedded SIM – A change in SIM Life-cycle Model

From the linear model used today....



To an outcome based model with repeat provisioning



GSMA Embedded SIM – Essential benefits



- Accelerating the market growth of Machine to Machine (M2M)
- Increasing operational efficiency for the M2M ecosystem
- Enabling remote or 'over the air' installation and management of operator profiles
- Cutting operational and physical logistics costs
 - No need to ship physical SIMs
 - No need to change physical SIM for entire product lifetime
- Enables new business models
- Preventing market fragmentation by avoiding different, incompatible technical solutions
- Driving economies of scale within the M2M industry



Global Compatibility



- The GSMA goal is to grow the M2M Industry and put a standard Embedded SIM at the centre of that growth
- Different, incompatible technical implementations of Embedded SIM will stifle growth
- One global Embedded SIM specification will avoid market fragmentation and drive economies of scale for all stakeholders
- Supports development of strong, global M2M ecosystem unifying operators, SIM suppliers and vendor partners

Accelerating growth and operational efficiency in the M2M world

The background of the slide features a dark, textured globe. A dense network of thin, light-colored lines is overlaid on the globe, representing a global network. Several of these lines are thicker and curve upwards from the globe's surface to small grey circular nodes positioned in the upper half of the frame. The word "Questions?" is centered in the middle of the image in a white, sans-serif font.

Questions?