IBM Dynamic Partition Manager
Customer Webcast
Carl Mayer et al. | STSM, z Systems Firmware Development
What if

we are able to create a **new partition**
including **I/O configuration** within **10 minutes**
through **a single management endpoint**?
Back to reality

Deep mainframe knowledge required

Several management endpoints

Complex platform management
We built it

Dynamic Partition Manager
Overview

What is DPM

Power of DPM

Making of DPM
Overview

What is DPM

Power of DPM

Making of DPM
What is the Dynamic Partition Manager?
PR/SM
Powerful but complex
PR/SM + DPM
Powerful and easy
What is the Dynamic Partition Manager?

PR/SM + DPM
Powerful and easy
Overview

What is DPM

Power of DPM

Making of DPM
Introducing Adele

System Administrator
29 years old
From Newark, NJ

General virtualisation management skills
No profound mainframe knowledge
The Power of DPM

Create Partition  Modify Resources  Gain Insights
I want to create a new partition including I/O configuration, within 10 minutes just by myself.

Adele
System Administrator
Setup of Demo Environment

**IBM z Systems z13**

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<th>Machine Type</th>
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<td>Model</td>
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<td>Hardware Details</td>
<td>2 CEC Drawers (63 Processors, 1.5 TB Memory)</td>
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<td>32 I/O Adapters (OSA, FCP, RoCE, zEDC and Crypto)</td>
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IBM DPM is enabled and the CPC is started.
Create Partition

Several days → 10 minutes
Create Partition

Several management endpoints → Single management endpoint
Create Partition

Several System Administrators  \rightarrow  Single System Administrator
The Power of DPM

Create Partition

Modify Resources

Gain Insights

+
I want to **easily modify** the system resources **without interrupting** the running workload by myself and **within minutes**.

Adele
System Administrator
Modify Resources

Hours → Minutes
Modify Resources

Several System Administrators → Single System Administrator
The Power of DPM

- Create Partition
- Modify Resources
- Gain Insights

+
I need to get insights on how a system and its resources are doing over time.

Adele
System Administrator
Gain Insights

Monitoring data → Insights over time

36 h
Gain Insights

Data scattered across several pages

All insights in one place
The Power of DPM

- Create Partition
- Modify Resources
- Gain Insights

+
Light Path
### Manage Adapters - P0000S12

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Overview

What is DPM

Power of DPM

Making of DPM
Technical Specifications Today

IBM z13 or z13s
IBM LinuxONE Emperor or Rockhopper

Feature Code #0016:
Hardware Requirements for IBM DPM

- Two dedicated OSA-Express5S
- 1000BASE-T Ethernet (#0417)

FICON Express (Type FCP)
OSA Express
Crypto Express
zEDC Express
RoCE Express
HiperSockets

KVM for IBM z Systems & LinuxONE and/or Linux on IBM z Systems & LinuxONE

Initially no support for:
- z/VM, z/OS, z/VSE, z/TPF

Initially no support for
- IBM zAware or GDPS® Virtual Appliance
- FICON Express (Type FC)
Q & A
Join us on our way

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Böblingen, Germany

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