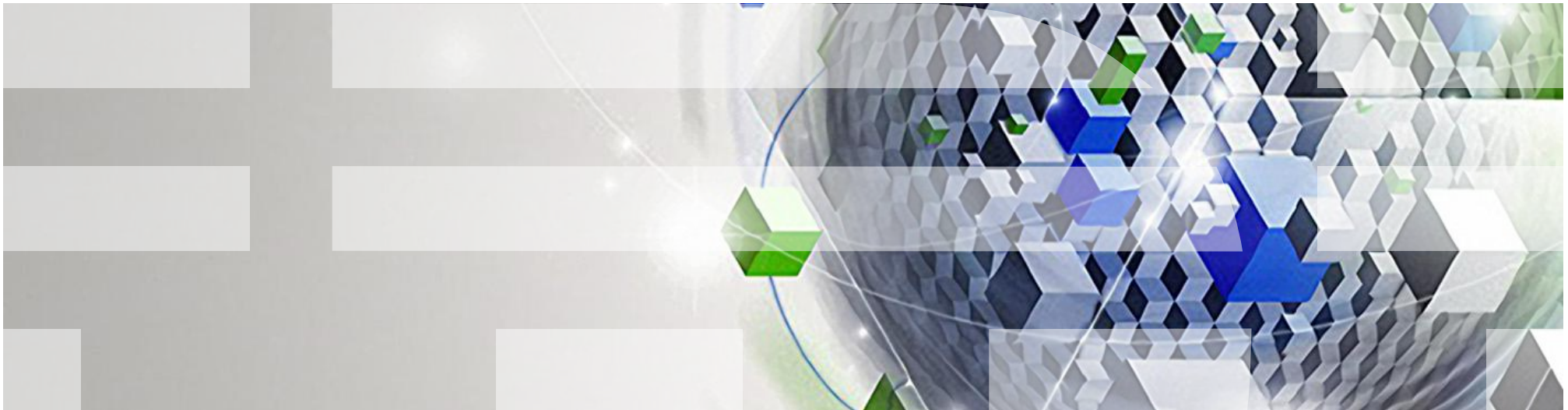


Power Systems Upgrade Path Summary

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Definitions for This Presentation

Upgrade = new model which keeps the same serial number

- ▶ Example: POWER6 570 9117-MMA to POWER7 770 9117-MMB

Migration = new model which does not keep the same serial number

- ▶ Example: POWER6 550 8204-E8A to POWER7 750 8223-E8B

Is protecting a serial number important?

To some clients, it does not matter. To others it does matter.

Serial number might matter:

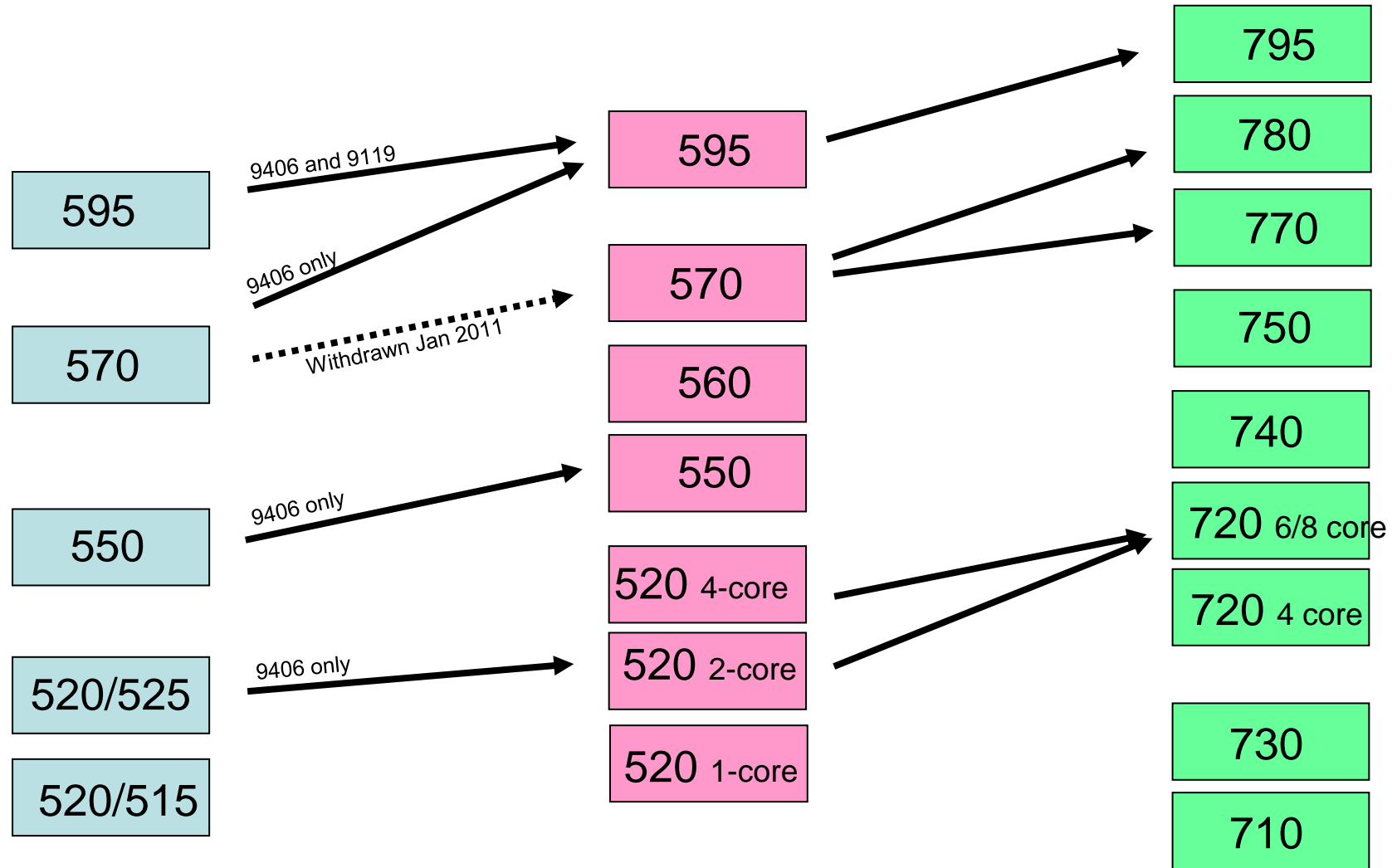
- ▶ Additional documentation/tools for moving to newer server
- ▶ Financially works better for depreciation/budget
- ▶ IBM software entitlements moves easily to newer server (especially IBM i)
- ▶ IBM 5250 entitlements (IBM i) moves easily to new server

Serial number might not matter:

- ▶ Client's asset definition doesn't use IBM serial number of server*
- ▶ Financial impact to depreciation/budget not an impact
- ▶ IBM software transferable (with a bit more effort)
- ▶ IBM 5250 more transferable now to POWER7 with RPQ

* Note: Some clients do not align their asset identification with the IBM serial number of a server. It is the client's job to follow the accounting standards they and their auditors have established for their business.

Model Upgrades (Same Serial Number) as of 1Q 2011

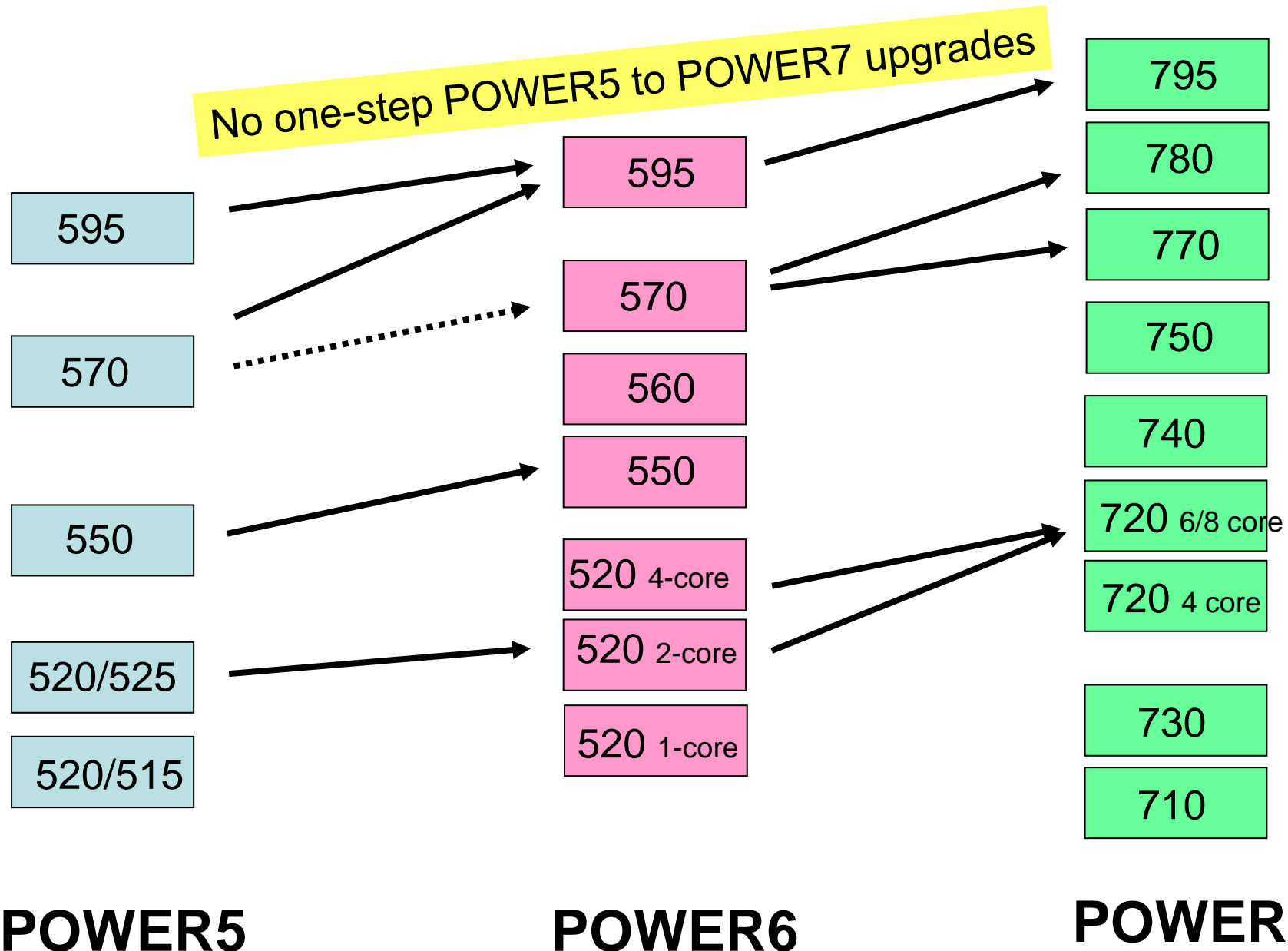


POWER5

POWER6

POWER7

Model Upgrades (Same Serial Number) as of 1Q 2011



Guidelines Provided by IBM Legal/Business Practices

From Wiki posted by Bradley Swick, IBM

<http://w3.tap.ibm.com/w3ki/display/HWPPractices/Same-Serial%20Number%202-Step%20MESs>

Same-Serial Number 2-Step MESs

Two-step MES upgrade transactions (defined here as a same-serial number upgrade of machine A to machine C using machine B as an interim step, where A->C is NOT an announced upgrade path) should only be accepted by IBM and fulfilled when all of the following are true:

- ▶ A → B and B → C are announced upgrade paths;
- ▶ the two steps are individually, sequentially contracted for and priced;
- ▶ IBM has no indication or knowledge that the customer's intent when upgrading from A → B is to do so merely as an interim step to get to machine C; and
- ▶ A → B is actually installed on the end user premises and put to productive use by the customer before placing an order for the B → C MES (typically at least 90 days should have elapsed between the time that machine B is put into productive use and the date the customer orders the B → C MES upgrade).

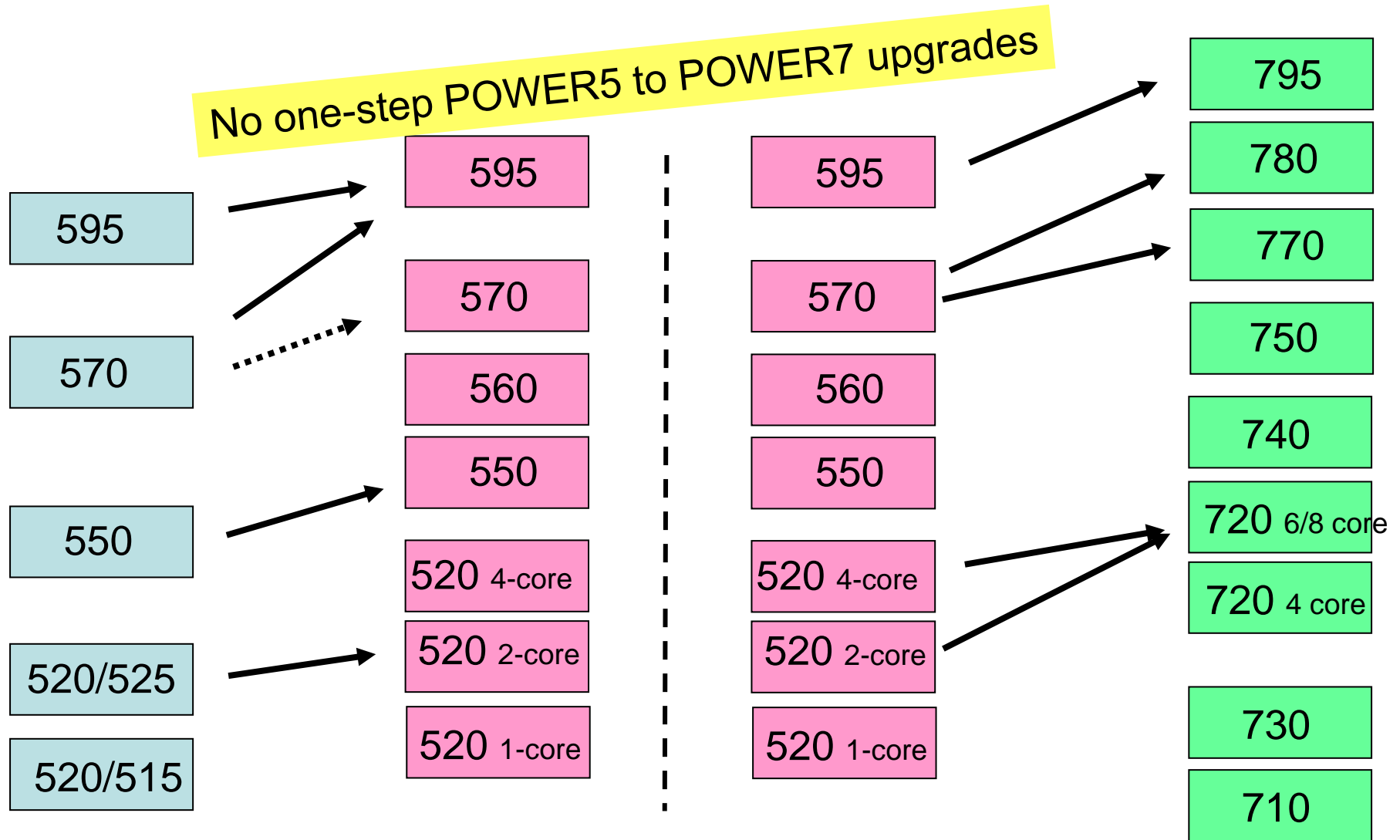
Two-step transactions, as described above, should not be accepted and fulfilled with a same-serial number MES upgrade when either:

- ▶ the end user does not put machine B into productive use for a sufficient period of time (as described above), or
- ▶ A → B is used for the sole purpose of enabling the subsequent MES upgrade to machine C.

In such case, the two-step transaction should only be fulfilled as an asset swap whereby machine C has a unique serial number compared to machines A or B.

If needed, contact Legal/Business Practices for more background information on this IBM world wide guideline.

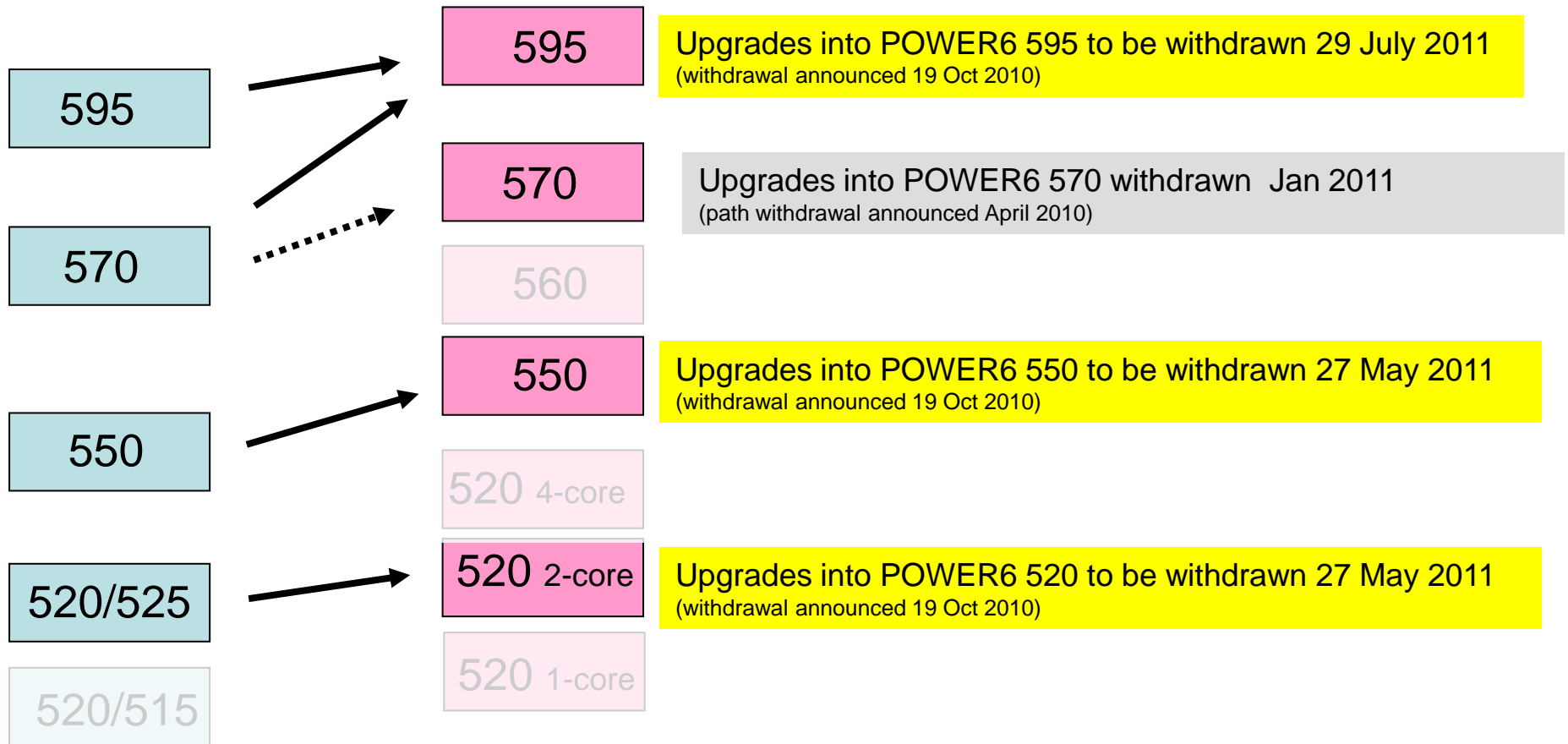
Model Upgrades (Same Serial Number) as of 1Q 2011



POWER5 → POWER6

POWER6 → POWER7

POWER5 → POWER6 (Same Serial Number)



POWER5 → POWER6

Model Withdrawal From Marketing (as of Jan 2011)

WFM
595

WFM
570

WFM
550

WFM
520/525

WFM
520/515

WFM
510

POWER5

595

WA
29 Jul 2011

WFM
Jan 2011
570

WFM
Jan 2011
560

550

WA
27 May 2011

520 4 core

WA
27 May 2011

520 2 core

WA
27 May 2011

520 1-core

WA
27 May 2011

POWER6

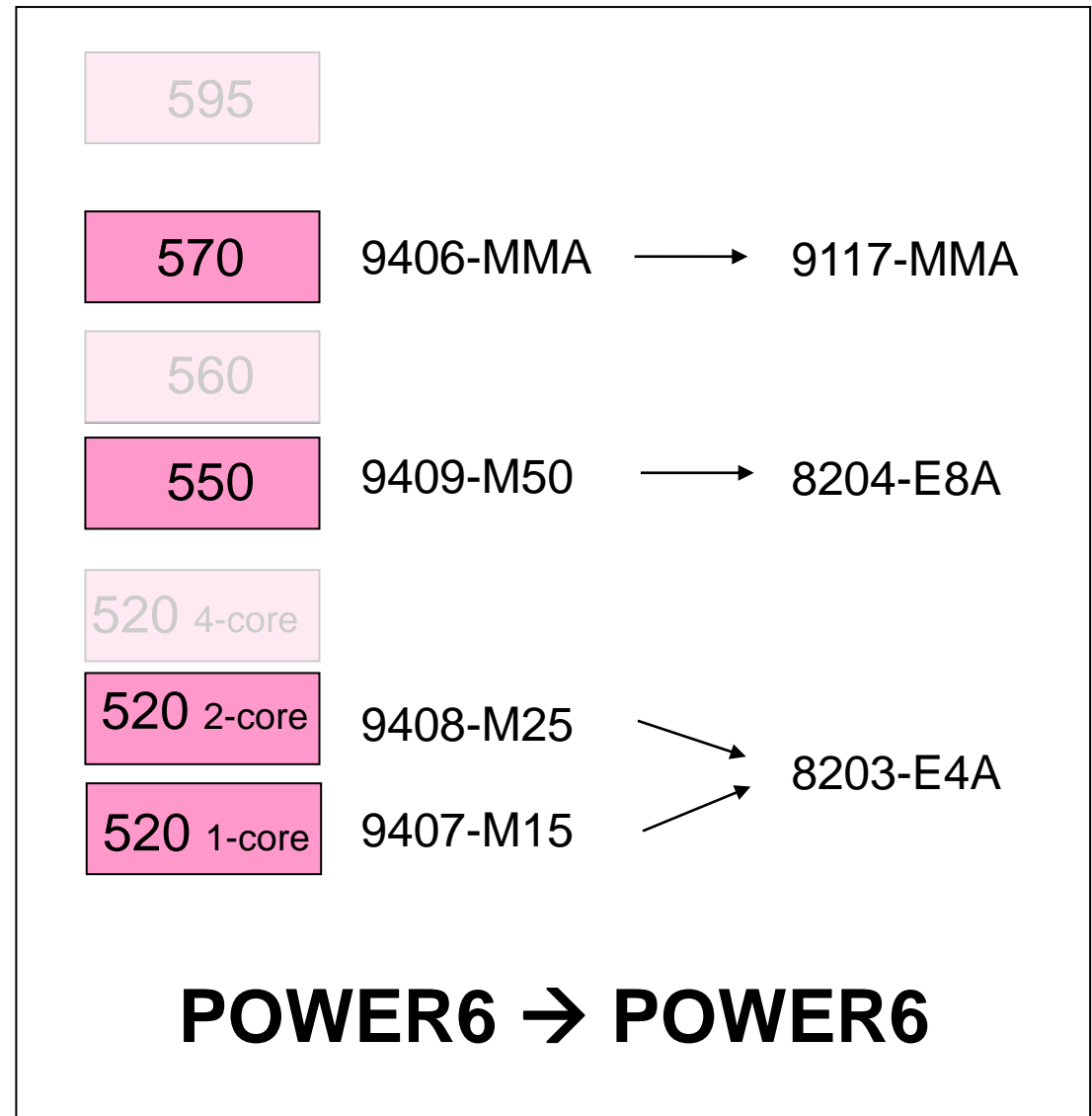
WFM = withdrawn from marketing (support not withdrawn)

WA = withdrawal from marketing announced 25 Jan 2011, but not yet effective

Unification Model “Conversions” Remain Available

- Unification conversions change a System i machine type/model and feature code structure to a unified Power Systems product structure. They basically change the labels and don't change the hardware*. You start with a POWER6 server and end up with the same* POWER6 server.
- **No withdrawal of POWER6 to POWER6 conversions has been announced. Thus the WFM of POWER5 to POWER6 upgrades do not impact these conversions.**
- The conversion of a 940x to a 9117/8204/8203 is NOT considered a “step” in the 2-step MES upgrade guideline provided by IBM Legal/Business Practices.

* One small hardware component changes – a VPD/Anchor card



Note the term “conversion” has other meanings when used by eConfig and IBM ordering system when doing upgrades. Features/models are either “adds”, “removes” or conversions in this context.

Why Convert 940x Now to Unified Servers

Newer I/O (MMA, M50, M25, M15)

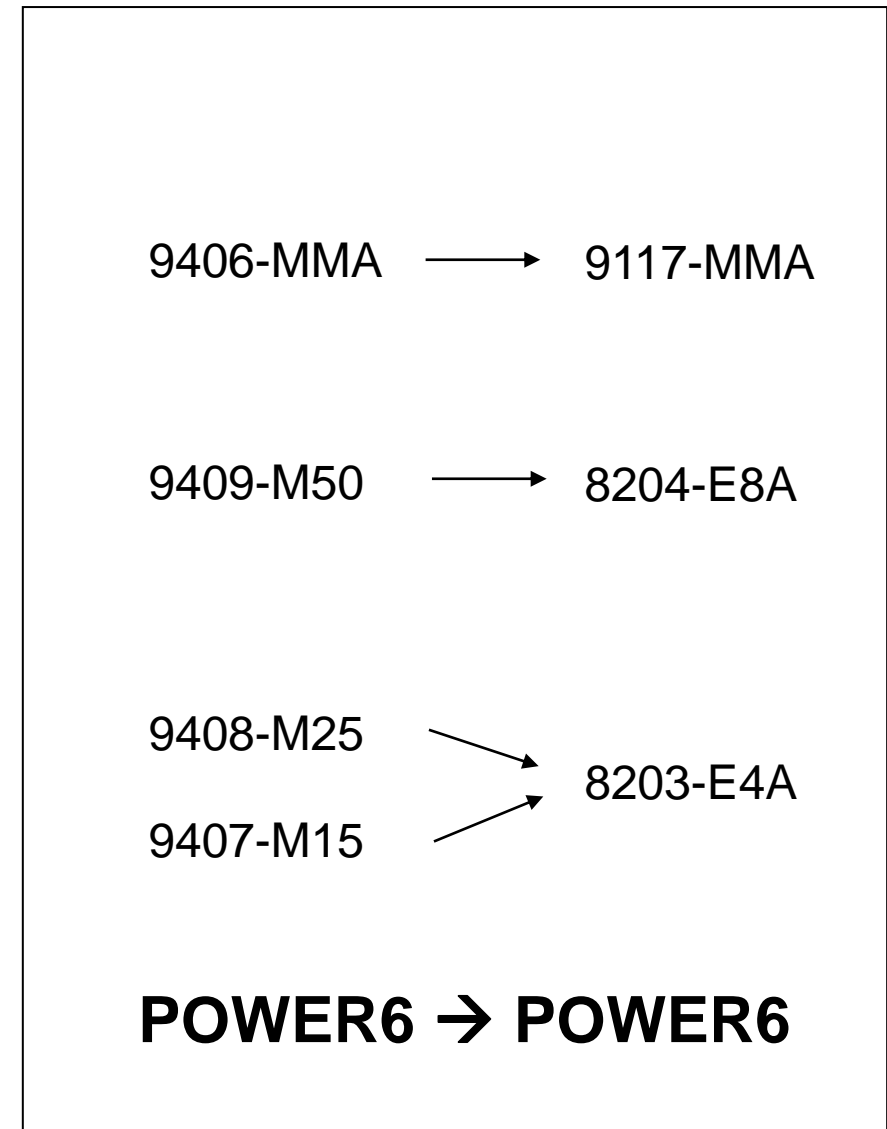
- Starting after Power Systems was introduced, new I/O was added to unified product structure and not announced on the 940x POWER6 servers.
- As even more I/O is announced in 2011, the difference will grow

POWER7 upgrades (MMA, M25)

- Must convert before upgrading. Paths only provided from unified product structure.

Conversion is “no charge” (mostly)

- Conversion itself is no charge, but there may be associated changes which may cause charges – maintenance coverage or POWERVM licensing for example may be impacted



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