



IBM Mainframe Refresh Project

CIO Council Meeting
July 11, 2012



NORTHROP GRUMMAN

Agenda

- Purpose of the refresh
- Benefits and comparisons
- Communication plan
- Installation plan
- Agency application owners
- Agency responsibilities
- Questions

Purpose of the refresh

- Meet Comprehensive Infrastructure Agreement requirements to keep technology current
 - Current Z9 mainframes are two generations behind current technology
- Adds new functionality
 - Ability to run Linux, AIX and Windows operating systems on the mainframe
 - Integration of mainframe and blade servers
- Improve performance capability
- Refreshing the disaster recovery (DR) mainframe at Southwest Enterprise Solutions Center (SWESC) with similar capabilities

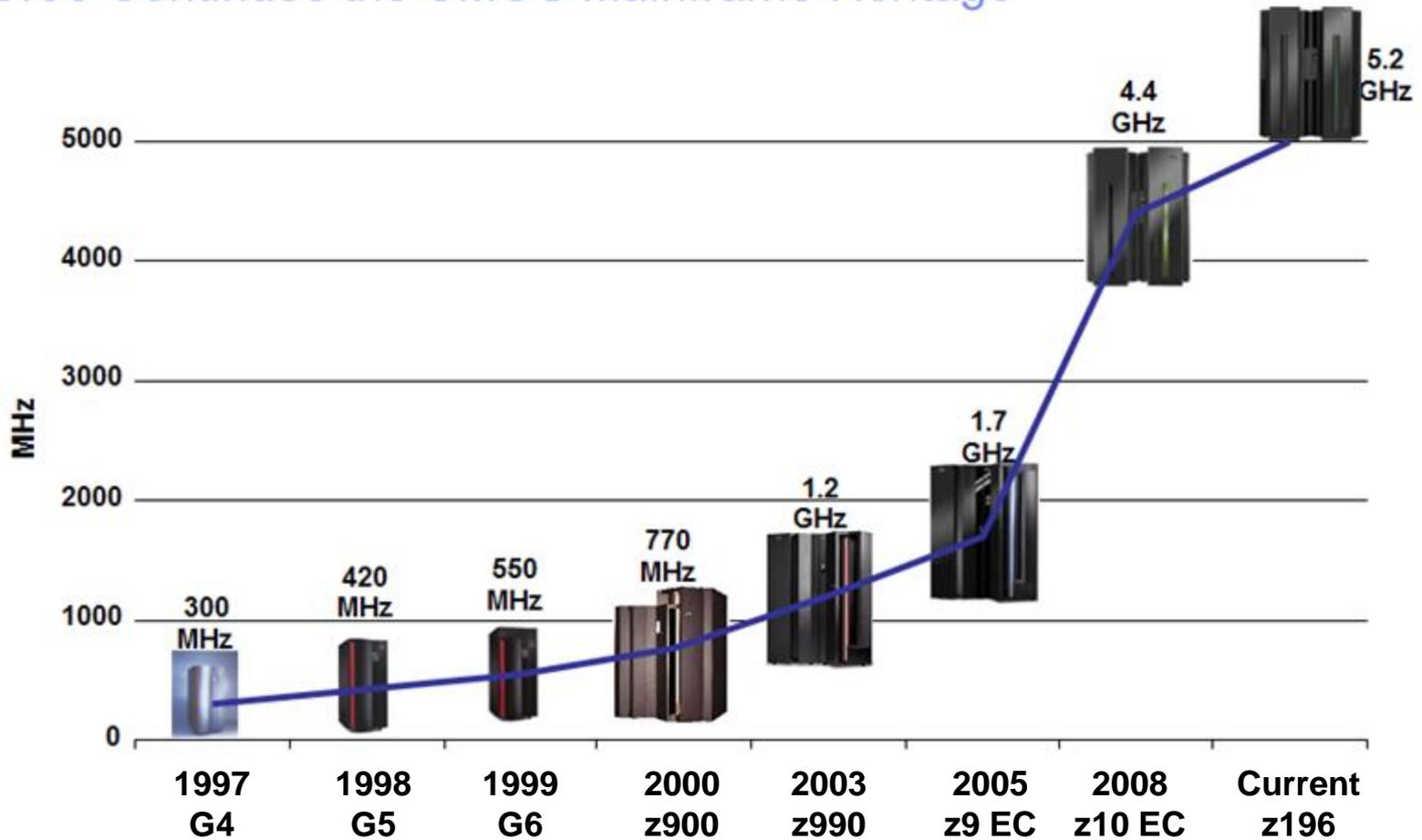
Benefits

- 5.2 GHz processor chip for z196 vs. 1.65 GHz for z9 EC
- 3.8 GHz processor chip for z114 vs. 1.42 GHz for z9 BC
- 100 new instructions
 - Up to 60 percent improvement in Linux performance
 - Up to 40 percent improvement in z/OS performance
 - Up to 40 percent improvement in VSAM performance
 - Up to 30 percent improvement in XML performance
- New compilers improve performance
- Redundant array memory
- HSA memory included – 16GB 2817 8GB 2818
- Ficon8s - zHPF
- OSA Express3 1000 BaseT

VITA / Northrop Grumman production comparison

- Current 2094
 - 2 HMC
 - 32 GB memory
 - **20 OSA2 1000 BaseT ports**
 - **24 FICON4 ports**
 - 36 ESCON ports
 - 2 Crypto cards
 - **407 Capacity (1209 Mips)**
 - 2 ETR
 - 1 ICF
- New 2817 HMO
 - 2 HMC
 - 32 GB memory
 - **40 OSA3 1000 BaseT ports**
 - **24 FICON8S ports**
 - 36 ESCON ports
 - 2 Crypto cards
 - **406 Capacity (1280 Mips)**
 - 1 STP
 - 1 ICF

z196 Continues the CMOS Mainframe Heritage

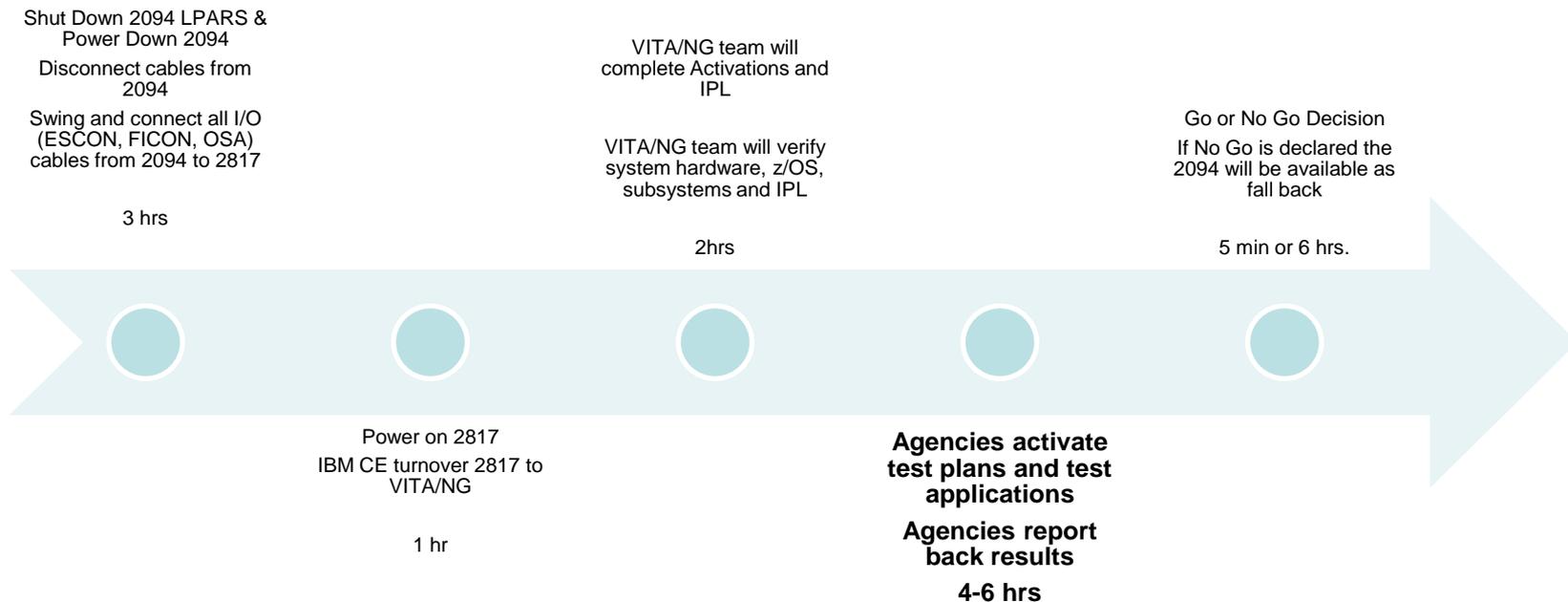


Communication plan

- Briefing to customer account managers (early July)
- CIO Council briefing (July 11)
- Email communication to impacted AITRs announcing mainframe refresh (early July)
- Technical conference meeting / bridges with agency mainframe staff to review plan and provide forum for questions (July 16 and July 24)
- Agency operation manager / agency meetings (mid-July)
- Network News announcement (Aug. 1)
- Final reminder – Upcoming mainframe refresh (Aug. 6)

Installation plan

- Install at SWESC on Wednesday, Aug. 8, 2012 – maintenance window, 8 a.m. to 8 p.m.
- Install at CESC on Sunday, Aug. 19, 2012 – extended maintenance window, 3 a.m. to 3 p.m.



Agency application owners

- Mainframe application owners

DSS

DMV

DMAS

VEC

SCB

DOA

VSP

VDOT

SCC

VRS

TAX

Agency responsibilities

- Mid-July – Aug.19
 - Communicate to agency staff, end user groups and business partners
 - Develop test and staffing plans
- Aug. 19
 - Agencies activate test plans and test applications
 - Agencies report back results

Questions?