

VAMF Engineering Support you
to keep your Power Plant Control
System alive
Upgrade the old control system
With
VAMF Engineering

Revision	Change	Release	Drawn	A. Horri
1			Approved	A. Horri
0			Date	01.01.2026

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**VAMF Solutions, Services
and Upgrades**

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VAMF Engineering /C&I Department Core Business

SIEMENS Control System

PLC

STEP 5

STEP 7

TIA Portal

DCS

TELEPERM ME

TELEPERM XP

SPPA-T2000

SPPA-T3000

PCS7

ABB Control System

DCS

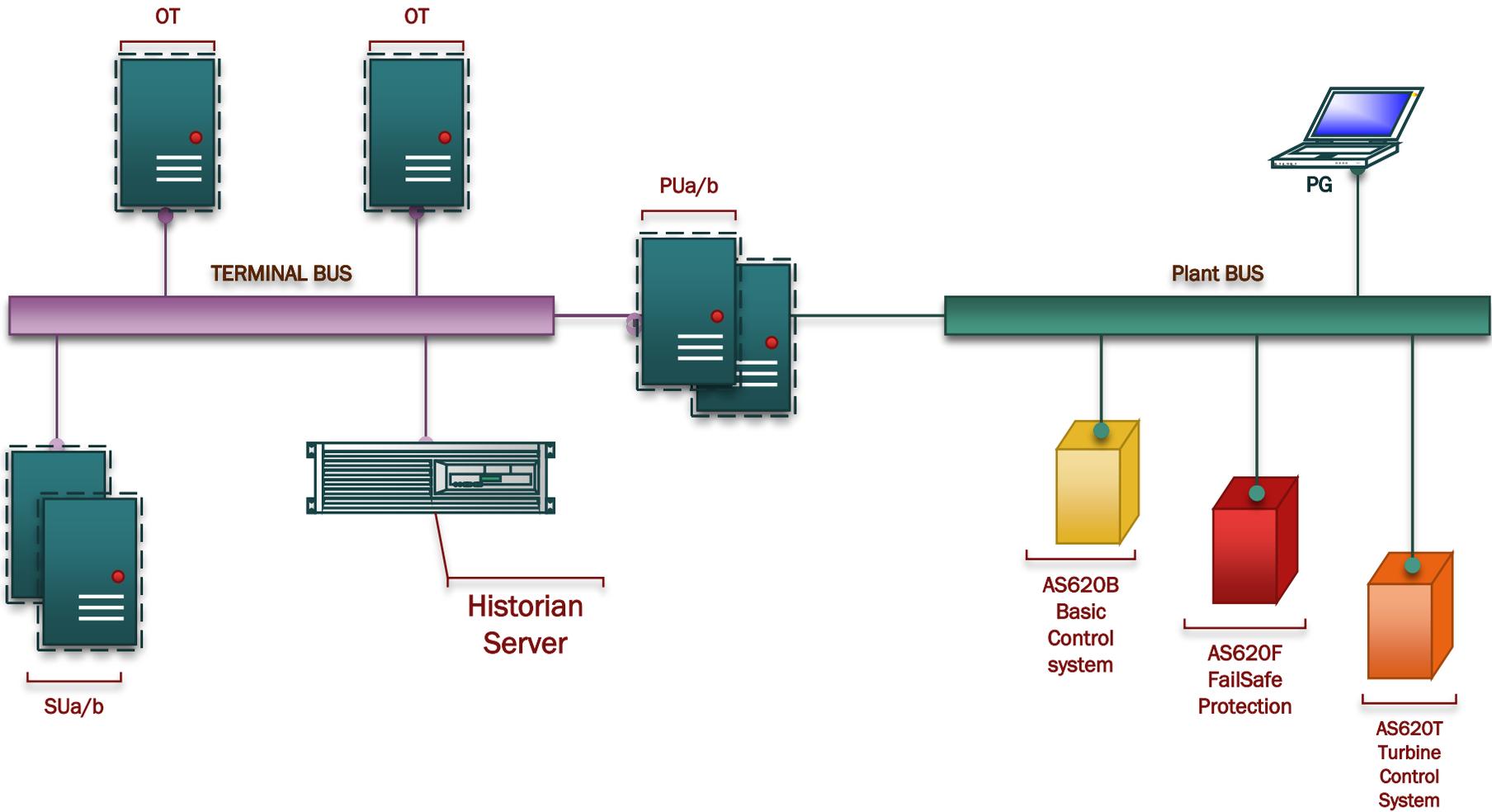
AC160

Infi90 (Harmony)

Symphony Plus

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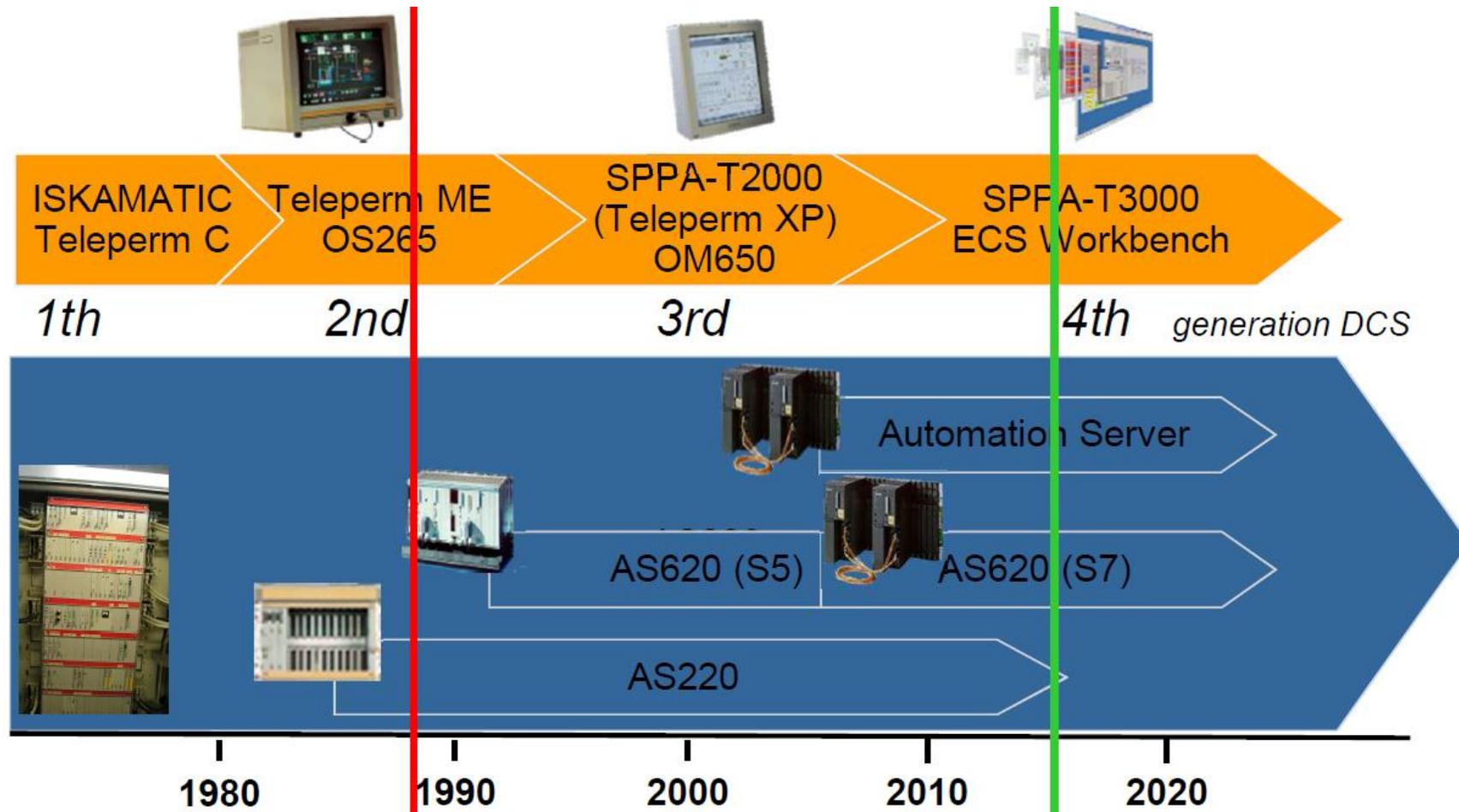
SIEMENS SPPA-T2000/TXP Control System Structure



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SIEMENS doesn't support its old DCS



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VAMF Engineering Support and Services for SPPA-T2000(TXP)

Reduce tag archiving in OM650

Reduce the size of events occupied on SU HDD

Easy to follow up the trip and emergency events

ES problem support

db problem

HDD problem

user error

diagram lock

MMI lock

night saving problem

restore ES

virtualized ES in vmware

OM650 hardware upgrade

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VAMF Engineering E/C&I Training Courses

SIEMENS SPPA-T2000(TXP) Control System

ES680 FUP Editor

ES680 MMI Editor

AS620B basic components/ FUM modules

AS620F Turbine Protection System/ Fail Safe modules

AS620T Turbine Control System / Governor System

OM650 PU/SU/OT services

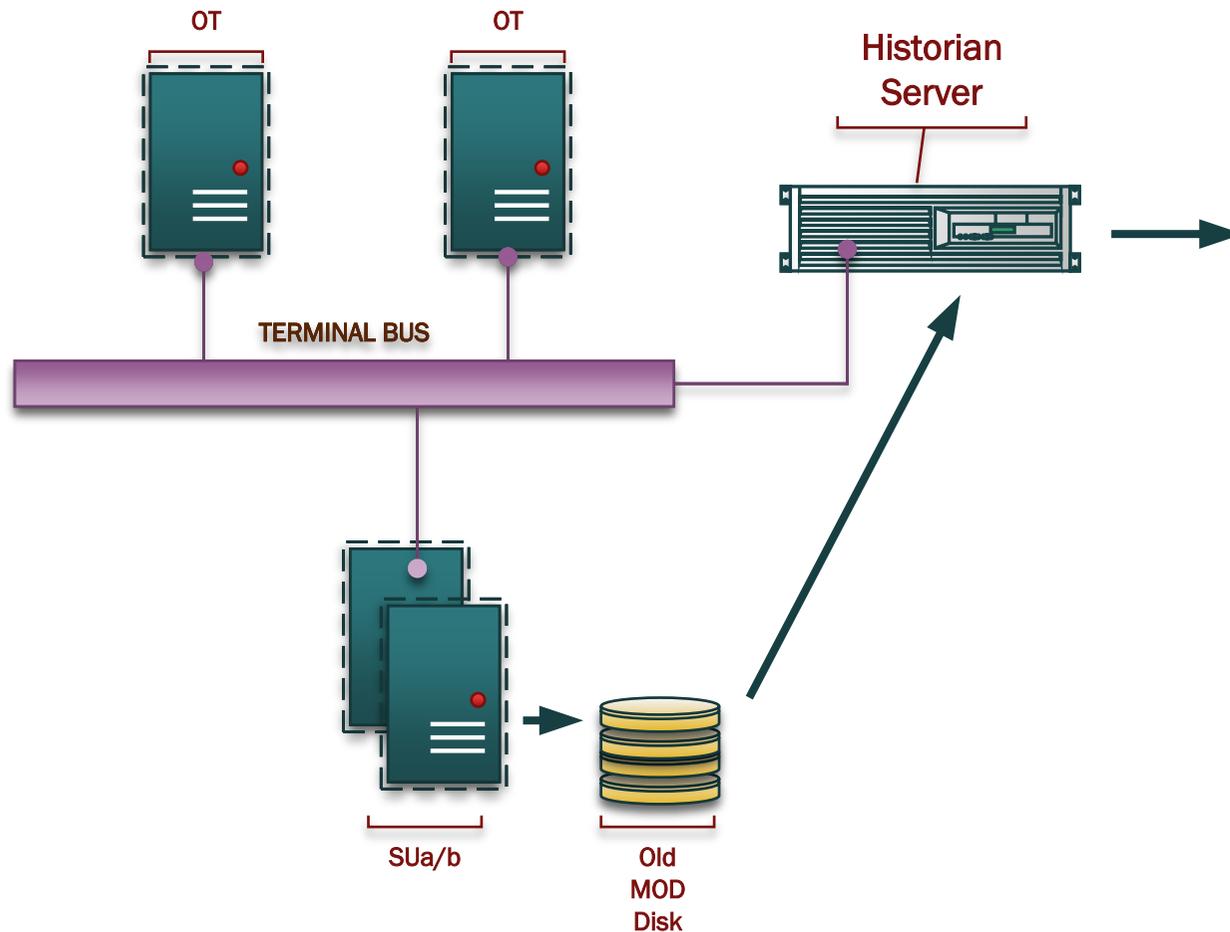
TXP Administration

SCO Unix

SUN Solaris

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VAMF Engineering Historian Server for SPPA-T2000(TXP)



- Historian Server will replace with old MOD Disk
- MOD Disk not available in market
- Data will convert into new Database
- Data will be available in windows application
- Data will be ready for data analyzing
- Data will be ready for **Condition Monitoring (CM)**
- Data will be ready for future Power Plant AI Analyzing
- Online Data will be available in OPC server format
- Online Data will be import into Management Dashboard
- All offline and online data can be direct through **Data Diode**

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VAMF Engineering Upgrade all SPPA-T2000(TXP) Computers



TXP OT
(Operating Terminal)

Existing System

- CPU: Pentium III
- HDD: 160G SCSI / IDE
- OS: SCO Unix 5.0.4 or 5.0.6
- Hardware does not exist anymore

Upgraded System

- CPU: Intel Core i5
- HDD: 1Tb SATA
- OS: SCO Unix 5.0.6
- Advantech IPC
- We will support long time



TXP SU
(Server Unit)

- CPU: Pentium III
- HDD: 160G SCSI / IDE
- OS: SCO Unix 5.0.4 or 5.0.6
- Hardware does not exist anymore

- CPU: Intel Core i5
- HDD: 1Tb SATA
- OS: SCO Unix 5.0.6
- Advantech IPC
- We will support long time



TXP PU
(Process Unit)

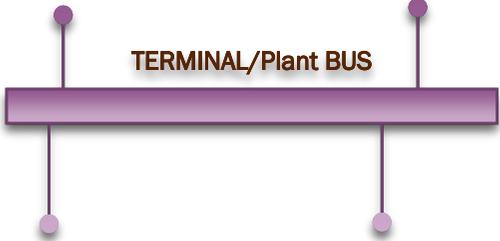
- CPU: Pentium III
- HDD: 160G SCSI / IDE
- OS: SCO Unix 5.0.4 or 5.0.6
- Hardware does not exist anymore

- CPU: Intel Core i5
- HDD: 1Tb SATA
- OS: SCO Unix 5.0.6
- Advantech IPC
- We will support long time

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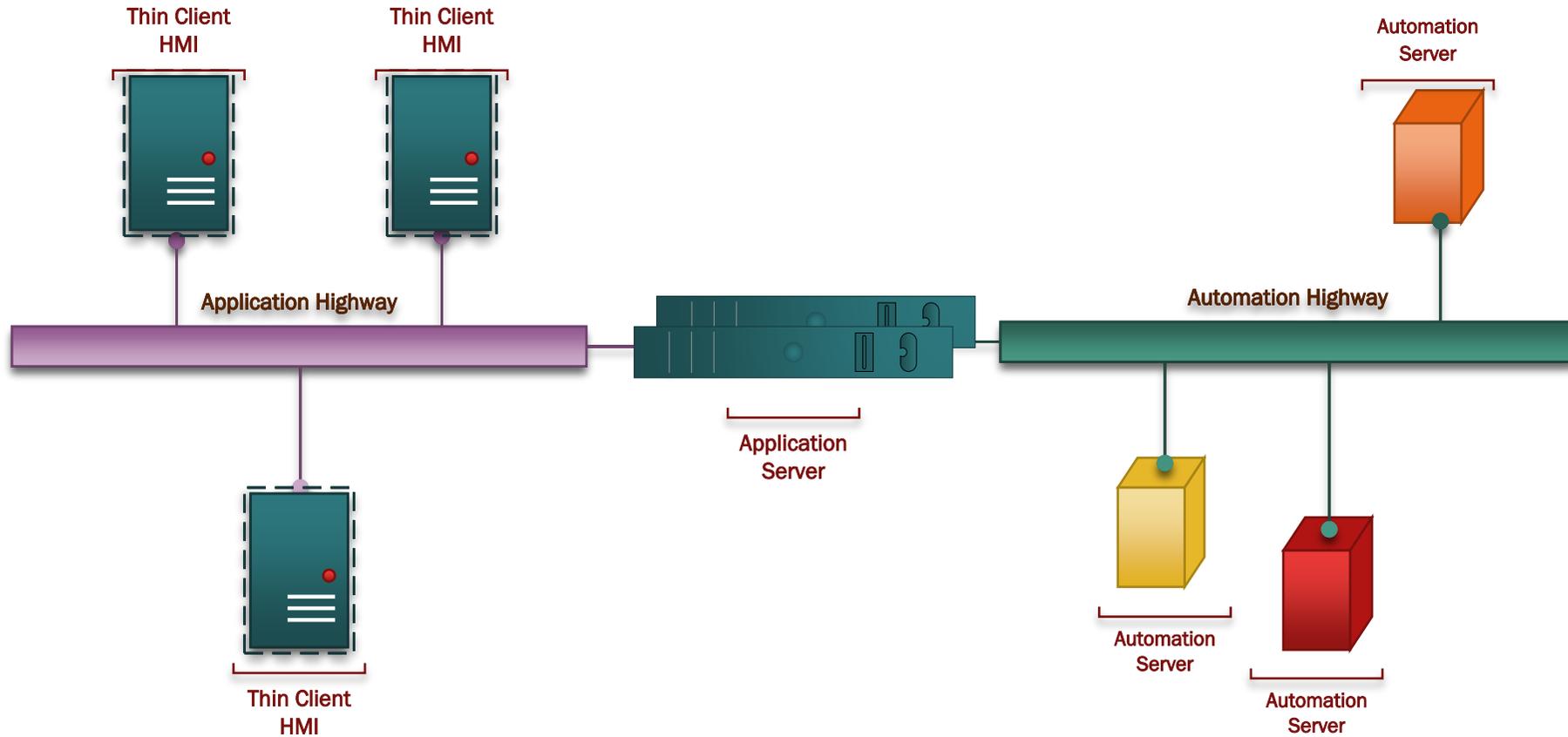
VAMF Engineering Upgrade all SPPA-T2000(TXP) Components

	Existing System	Upgraded System
 <p>TXP ES (Engineering Station)</p>	<ul style="list-style-type: none"> CPU: Pentium III HDD: 160G SCSI / IDE OS: SCO Unix 5.0.4 or 5.0.6 Hardware does not exist anymore 	<ul style="list-style-type: none"> CPU: Intel Core i5 HDD: 1Tb SATA OS: SCO Unix 5.0.6 Advantech IPC We will support it for long time
 <p>PG (Program Device)</p>	<ul style="list-style-type: none"> CPU: Pentium IV HDD: 160G SCSI / IDE OS: Windows XP Hardware does not exist anymore 	<ul style="list-style-type: none"> CPU: Intel Core i5 HDD: 1Tb SATA OS: Windows 7 New Version of PG We will support it for long time
 <p>AS620B Basic Automation System S5/S7 controller With FUM IO Modules</p>	<ul style="list-style-type: none"> FUM IO Modules are expensive Difficult to repair 	<ul style="list-style-type: none"> Replace FUM IO Modules with SIM IO Modules SIM Module are cheaper than FUM modules SIM Modules are available everywhere
 <p>TERMINAL/Plant BUS</p>	<ul style="list-style-type: none"> Old switch used in the BUS system Hirschmann Starcoupler/ SIEMENS OSM Low speed rate High Vulnerability 	<ul style="list-style-type: none"> Upgrade with new Industrial Switches Managed switch with low risk of attack High speed

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SIEMENS SPPA-T3000 Control System



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VAMF Engineering Upgrade SIEMENS SPPA-T3000 Control System



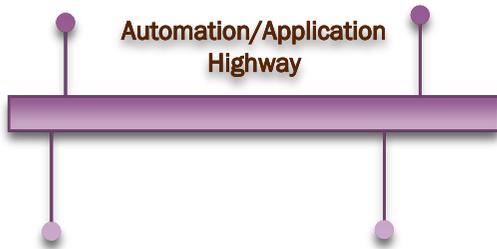
Application Server

Existing System

- Fujitsu-SIEMENS Server
- Or
- Ft Server
- Very expensive Server

Upgraded System

- Replace with new DELL/HP server
- With fully support from Us
- Upgrade without Power Plant Shutdown



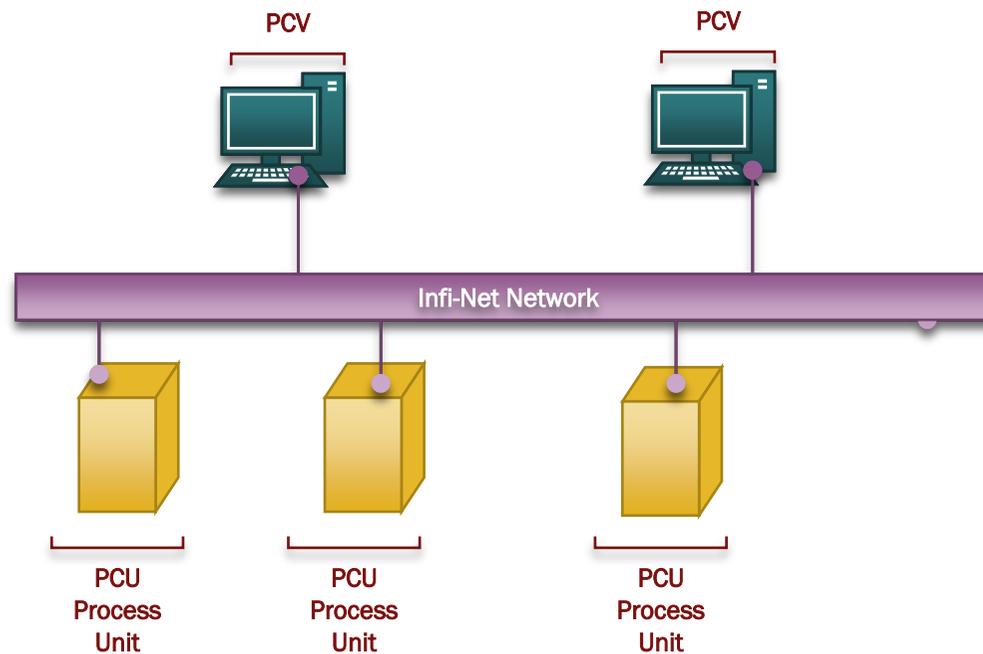
Automation/Application Highway

- Old switch used in the BUS system
- SIEMENS OSM
- High Vulnerability

- Upgrade with new Industrial Switches
- Managed switch with low risk of attack
- High speed

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ABB Infi90 Control System



- Old BUS System with complete plant in one ring
- Old Control units with obsolete and not support modules
- Old OS (QNIX)
- Old HMI Computers
- Old Device for logic modification without integrated logic system

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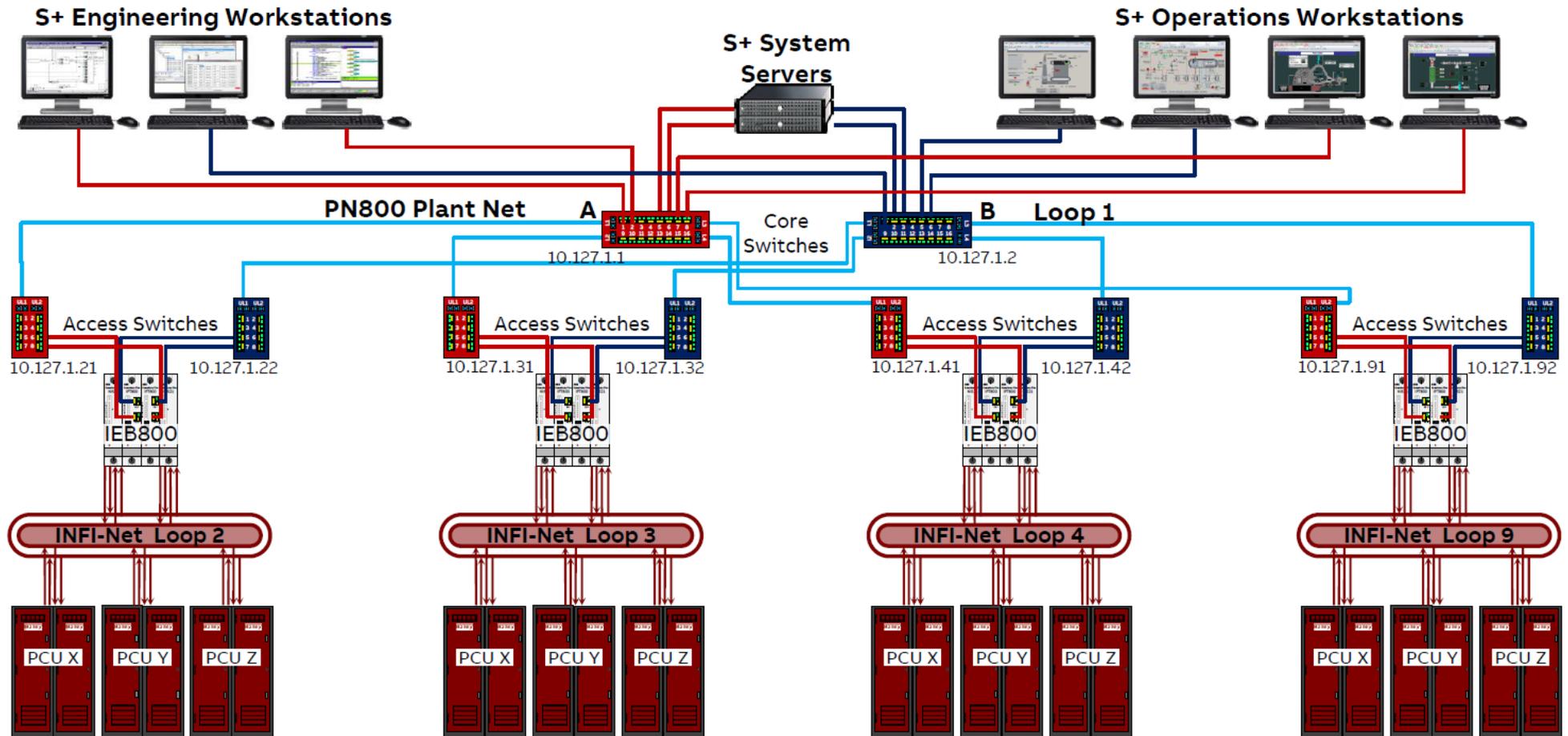
VAMF Engineering Upgrade Infi90 Control System

PCV	Existing System	Upgraded System
 <p>PCV HMI Computer</p>	<ul style="list-style-type: none"> • CPU: Pentium II • HDD: 80G IDE • OS: QNIX • Hardware does not exist anymore 	<ul style="list-style-type: none"> • CPU: Intel Core i5 • HDD: 1Tb SATA • OS: QNIX • Advantech IPC • We will support it for long time
EWS to Composer	Existing System	Upgraded System
 <p>Composer ES Computer</p>	<ul style="list-style-type: none"> • CPU: Pentium II • HDD: 80G IDE • OS: DOS • Hardware does not exist anymore 	<ul style="list-style-type: none"> • CPU: Intel Core i5 • HDD: 1Tb SATA • OS: Windows 7 • Advantech IPC • Convert all logics from EWS to windows based Composer • Connect Composer to the ring via Serial port or Ethernet(IPT800) • We will support it for long time

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VAMF Engineering ABB Infi90 Upgrade to Symphony Plus (Reference ABB)

HR Series: IEB800 – Upgrading Central Ring to PN800 Plant Net



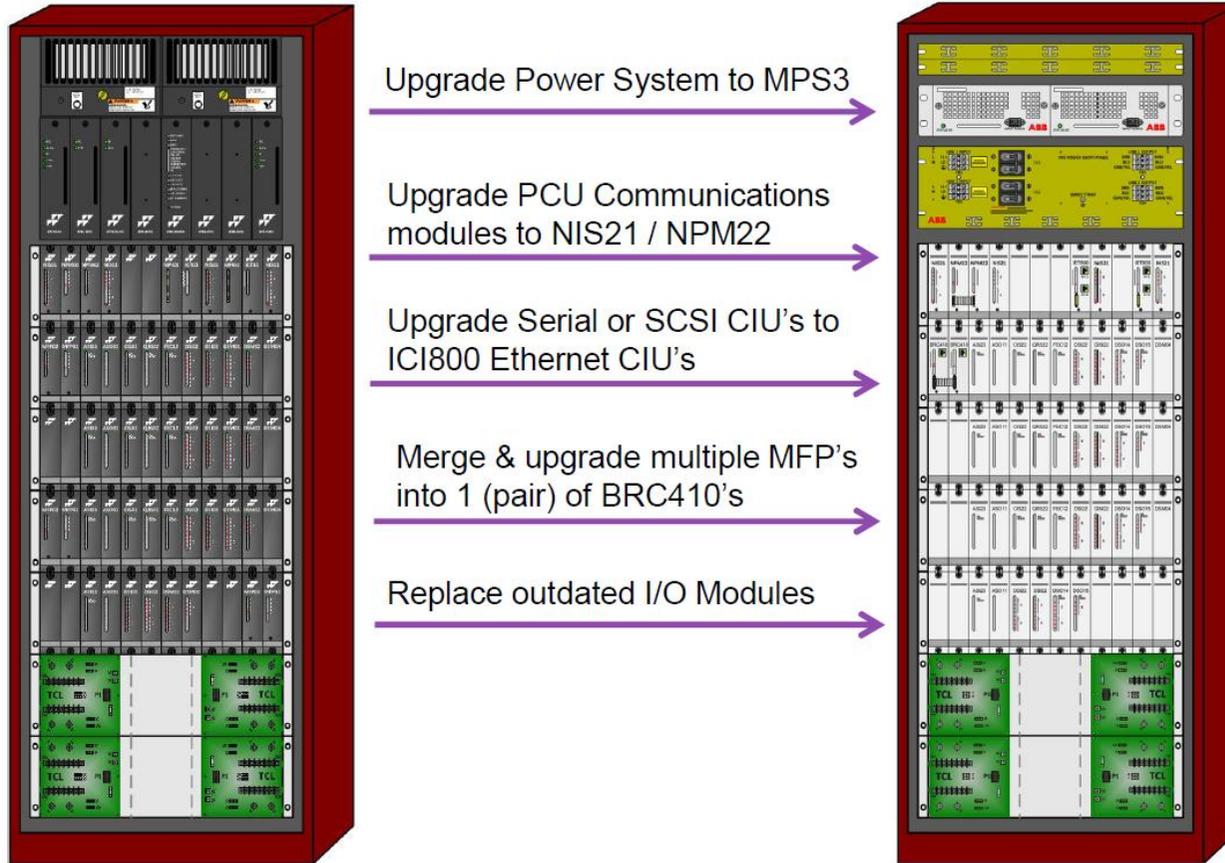
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VAMF Engineering ABB Infi90 Upgrade to Symphony Plus

(Reference ABB)

S+ Control & I/O Update Upgrading to Latest Rack Hardware



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