

**DISTRIBUTION STANDARD SYSTEM (DSS)**

**EQUIPMENT CONTROL SYSTEM (ECS)**

**SYSTEM/SUBSYSTEM DESIGN DESCRIPTION (SSDD)**

**(DI-IPSC-81432)**

Revision 7/Change 19



**U.S. DEPARTMENT OF DEFENSE  
DEFENSE LOGISTICS AGENCY**  
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Official Signatures

## TABLE OF CONTENTS

1.0	SCOPE .....	1-1
1.1	Identification .....	1-1
1.1.1	System Overview .....	1-2
1.1.1.1	Document Overview .....	1-3
2.0	REFERENCED DOCUMENTS .....	2-1
3.0	SYSTEM-WIDE DESIGN DECISIONS .....	3-1
4.0	SYSTEM ARCHITECTURAL DESIGN .....	4-1
4.1	System Components.....	4-1
4.1.1	ECS HWCI.....	4-1
4.1.1.1	San Diego.....	4-3
4.1.1.1.1	San Diego DSS .....	4-4
4.1.1.1.1.1	San Diego DSS Hardware.....	4-4
4.1.1.1.1.1.1	ECSDCHWMFD1.0 .....	4-4
4.1.1.1.1.2	San Diego DSS Software.....	4-4
4.1.1.1.1.2.1	ECSDCSWMFD2.0 .....	4-4
4.1.1.1.2	San Diego Traffic Controller .....	4-4
4.1.1.1.2.1	San Diego Traffic Controller Hardware .....	4-4
4.1.1.1.2.1.1	ECSDCHWTRC1.0 .....	4-4
4.1.1.1.2.2	San Diego Traffic Controller Software.....	4-5
4.1.1.1.2.2.1	ECSDCSWTRC2.0.....	4-5
4.1.1.1.2.3	San Diego Traffic Controller Communication .....	4-5
4.1.1.1.2.3.1	ECSDCCMTRC3.0.....	4-5
4.1.1.1.3	San Diego Database Controller.....	4-5
4.1.1.1.3.1	San Diego Database Controller Hardware .....	4-5
4.1.1.1.3.1.1	ECSDCHWDBA1.0.....	4-5
4.1.1.1.3.2	San Diego Database Controller Software .....	4-6
4.1.1.1.3.2.1	ECSDCSWDBA2.0 .....	4-6
4.1.1.1.3.3	San Diego Database Controller Communication .....	4-6
4.1.1.1.3.3.1	ECSDCCMDBA3.0 .....	4-6
4.1.1.1.4	San Diego NLSC Subcontroller.....	4-6
4.1.1.1.4.1	San Diego NLSC Subcontroller Hardware .....	4-6
4.1.1.1.4.1.1	ECSDCHWNAS1.0 .....	4-6
4.1.1.1.4.2	San Diego NLSC Subcontroller Software .....	4-7
4.1.1.1.4.2.1	ECSDCSWNAS2.0.....	4-7

## DISTRIBUTION STANDARD SYSTEM

### Equipment Control System

September 16, 2004

4.1.1.1.4.3	San Diego NLSC Subcontroller Communication .....	4-7
4.1.1.1.4.3.1	ECSDCCMNAS3.0 .....	4-7
4.1.1.1.5	San Diego STACKMAN Subcontroller.....	4-7
4.1.1.1.5.1	San Diego STACKMAN Subcontroller Hardware.....	4-7
4.1.1.1.5.1.1	ECSDCHWSTM1.0.....	4-7
4.1.1.1.5.2	San Diego STACKMAN Subcontroller Software .....	4-7
4.1.1.1.5.2.1	ECSDCSWSTM2.0 .....	4-7
4.1.1.1.5.3	San Diego STACKMAN Subcontroller Communication.....	4-8
4.1.1.1.5.3.1	ECSDCCMSTM3.0 .....	4-8
4.1.1.1.6	San Diego STACKER/AGV Subcontroller .....	4-8
4.1.1.1.6.1	San Diego STACKER/AGV Subcontroller Hardware .....	4-8
4.1.1.1.6.1.1	ECSDCHWSTR1.0.....	4-8
4.1.1.1.6.2	San Diego STACKER/AGV Subcontroller Software.....	4-8
4.1.1.1.6.2.1	ECSDCSWSTR2.0 .....	4-8
4.1.1.1.6.3	San Diego STACKER/AGV Subcontroller Communication .....	4-9
4.1.1.1.6.3.1	ECSDCCMSTR3.0 .....	4-9
4.1.1.2	Hill .....	4-10
4.1.1.2.1	Hill DSS .....	4-11
4.1.1.2.1.1	Hill DSS Hardware .....	4-11
4.1.1.2.1.1.1	ECSHUHWMFD1.0 .....	4-11
4.1.1.2.1.2	Hill DSS Software.....	4-11
4.1.1.2.1.2.1	ECSHUSWMFD2.0.....	4-11
4.1.1.2.2	Hill Traffic Controller.....	4-11
4.1.1.2.2.1	Hill Traffic Controller Hardware .....	4-11
4.1.1.2.2.1.1	ECSHUHWTRC1.0.....	4-11
4.1.1.2.2.2	Hill Traffic Controller Software .....	4-12
4.1.1.2.2.2.1	ECSHUSWTRC2.0.....	4-12
4.1.1.2.2.3	Hill Traffic Controller Communication .....	4-12
4.1.1.2.2.3.1	ECSHUCMTRC3.0 .....	4-12
4.1.1.2.2.4	Hill Database Controller .....	4-12
4.1.1.2.2.4.1	Hill Database Controller Hardware .....	4-12
4.1.1.2.2.4.1.1	ECSHUHWDBA1.0 .....	4-12
4.1.1.2.2.5	Hill Database Controller Software.....	4-13
4.1.1.2.2.5.1	ECSHUSWDBA2.0.....	4-13

# DISTRIBUTION STANDARD SYSTEM

## Equipment Control System

September 16, 2004

4.1.1.2.2.6	Hill Database Controller Communications .....	4-13
4.1.1.2.2.6.1	ECSHUCMDBA3.0.....	4-13
4.1.1.2.4	Hill Stacker Subcontroller.....	4-13
4.1.1.2.4.1	Hill Stacker Subcontroller Hardware.....	4-13
4.1.1.2.4.1.1	ECSHUHWSTK1.0 .....	4-13
4.1.1.2.4.2	Hill Stacker Subcontroller Software .....	4-14
4.1.1.2.4.2.1	ECSHUSWSTK2.0.....	4-14
4.1.1.2.4.3	Hill Stacker Subcontroller Communication.....	4-14
4.1.1.2.4.3.1	ECSHUCMSTK3.0.....	4-14
4.1.1.2.4.4	Hill AWOS Subcontroller.....	4-14
4.1.1.2.4.4.1	Hill AWOS Subcontroller Hardware .....	4-14
4.1.1.2.4.4.1.1	ECSHUHWAWS1.0 .....	4-14
4.1.1.2.4.5	Hill AWOS Subcontroller Software .....	4-15
4.1.1.2.4.5.1	CSHUSWAWS2.0 .....	4-15
4.1.1.2.4.6	Hill AWOS Subcontroller Communications .....	4-15
4.1.1.2.4.6.1	ECSHUCMAWS3.0 .....	4-15
4.1.1.3	Jacksonville.....	4-16
4.1.1.3.1	Jacksonville DSS .....	4-17
4.1.1.3.1.1	Jacksonville DSS Hardware.....	4-17
4.1.1.3.1.1.1	ECSJFHWMPFD1.0 .....	4-17
4.1.1.3.1.2	Jacksonville DSS Software .....	4-17
4.1.1.3.1.2.1	ECSJFSWMFD2.0.....	4-17
4.1.1.3.2	Jacksonville Traffic Controller .....	4-17
4.1.1.3.2.1	Jacksonville Traffic Controller Hardware .....	4-17
4.1.1.3.2.1.1	ECSJFHWTRC1.0 .....	4-17
4.1.1.3.2.2	Jacksonville Traffic Controller Software .....	4-18
4.1.1.3.2.2.1	ECSJFSWTRC2.0.....	4-18
4.1.1.3.2.3	Jacksonville Traffic Controller Communication .....	4-18
4.1.1.3.2.3.1	ECSJFCMTRC3.0 .....	4-18
4.1.1.3.3	Jacksonville Carousel Subcontroller.....	4-18
4.1.1.3.3.1	Jacksonville Carousel Subcontroller Hardware .....	4-18
4.1.1.3.3.1.1	ECSJFHWCAR1.0.....	4-18
4.1.1.3.3.2	Jacksonville Carousel Subcontroller Software .....	4-18
4.1.1.3.3.2.1	ECSJFSWCAR2.0 .....	4-18

# DISTRIBUTION STANDARD SYSTEM

## Equipment Control System

September 16, 2004

4.1.1.3.3.3	Jacksonville Carousel Subcontroller Communication .....	4-19
4.1.1.3.3.3.1	ECSJFCMCAR3.0 .....	4-19
4.1.1.4	Norfolk .....	4-20
4.1.1.4.1	Norfolk DSS.....	4-21
4.1.1.4.1.1	Norfolk DSS Software .....	4-21
4.1.1.4.1.1.1	ECSNVSWMFD2.....	4-21
4.1.1.4.2	Norfolk Traffic Controller .....	4-21
4.1.1.4.2.1	Norfolk Traffic Controller Hardware.....	4-21
4.1.1.4.2.1.1	ECSNVHWTRC1.0.....	4-21
4.1.1.4.2.2	Norfolk Traffic Controller Software .....	4-21
4.1.1.4.2.2.1	ECSNVSWTRC2.0.....	4-21
4.1.1.4.2.3	Norfolk Traffic Controller Communication.....	4-22
4.1.1.4.2.3.1	ECSNVCMTRC3.0 .....	4-22
4.1.1.4.3	Norfolk Data Base Subcontroller.....	4-22
4.1.1.4.3.1	Norfolk Data Base Subcontroller Hardware .....	4-22
4.1.1.4.3.1.1	ECSNVHWDBA1.0 .....	4-22
4.1.1.4.3.2	Norfolk Data Base Subcontroller Software .....	4-22
4.1.1.4.3.2.1	ECSNVSWDBA2.0 .....	4-22
4.1.1.4.3.3	Norfolk Data Base Subcontroller Communication .....	4-23
4.1.1.4.3.3.1	ECSNVCMDBA3.0.....	4-23
4.1.1.4.4	Norfolk TRIAX Subcontroller .....	4-23
4.1.1.4.4.1	Norfolk TRIAX Subcontroller Hardware .....	4-23
4.1.1.4.4.1.1	ECSNVHWTRX1.0.....	4-23
4.1.1.4.4.2	Norfolk TRIAX Subcontroller Software .....	4-23
4.1.1.4.4.2.1	ECSNVSWTRX2.0 .....	4-23
4.1.1.4.4.3	Norfolk TRIAX Subcontroller Communication .....	4-24
4.1.1.4.4.3.1	ECSNVCMTRX3.0 .....	4-24
4.1.1.4.5	Norfolk V-52 Stacker Subcontroller .....	4-24
4.1.1.4.5.1	Norfolk V-52 Stacker Subcontroller Hardware .....	4-24
4.1.1.4.5.1.1	ECSNVHWV521.0.....	4-24
4.1.1.4.5.2	Norfolk V-52 Stacker Subcontroller Software .....	4-24
4.1.1.4.5.2.1	ECSNVSWV522.0.....	4-24
4.1.1.4.5.3	Norfolk V-52 Stacker Subcontroller Communication .....	4-25
4.1.1.4.5.3.1	ECSNVCMV523.0 .....	4-25

## DISTRIBUTION STANDARD SYSTEM

### Equipment Control System

September 16, 2004

4.1.1.4.6	Norfolk Stacker Subcontroller .....	4-25
4.1.1.4.6.1	Norfolk Stacker Subcontroller Hardware .....	4-25
4.1.1.4.6.1.1	ECSNVHWSTK1.0 .....	4-25
4.1.1.4.6.2	Norfolk Stacker Subcontroller Software.....	4-26
4.1.1.4.6.2.1	ECSNVSWSTK2.0.....	4-26
4.1.1.4.6.3	Norfolk Stacker Subcontroller Communication .....	4-26
4.1.1.4.6.3.1	ECSNVCMSTK3.0.....	4-26
4.1.1.4.7	Norfolk AWOS Subcontroller .....	4-26
4.1.1.4.7.1	Norfolk AWOS Subcontroller Hardware.....	4-26
4.1.1.4.7.1.1	ECSNVHWAWS1.0.....	4-26
4.1.1.4.7.2	Norfolk AWOS Subcontroller Software.....	4-27
4.1.1.4.7.2.1	ECSNVSWAWS2.0.....	4-27
4.1.1.4.7.3	Norfolk AWOS Subcontroller Communication.....	4-27
4.1.1.4.7.3.1	ECSNVCMAWS3.0 .....	4-27
4.1.1.4.8	Norfolk W143 Conveyor Subcontroller.....	4-27
4.1.1.4.8.1	Norfolk W143 Conveyor Subcontroller Hardware.....	4-27
4.1.1.4.8.1.1	ECSNVHWCNV1.0 .....	4-27
4.1.1.4.8.2	Norfolk W143 Conveyor Subcontroller Software .....	4-28
4.1.1.4.8.2.1	ECSNVSWCNV2.0 .....	4-28
4.1.1.4.8.3	Norfolk W143 Conveyor Subcontroller Communication.....	4-28
4.1.1.4.8.3.1	ECSNVCMCNV3.0 .....	4-28
4.1.1.4.9	Norfolk Y109 Freight Subcontroller.....	4-28
4.1.1.4.9.1	Norfolk Y109 Freight Subcontroller Hardware .....	4-28
4.1.1.4.9.1.1	ECSNVHWFRT1.0 .....	4-28
4.1.1.4.9.2	Norfolk Y109 Freight Subcontroller Software .....	4-29
4.1.1.4.9.2.1	ECSNVSWFRT2.0 .....	4-29
4.1.1.4.9.3	Norfolk Y109 Freight Subcontroller Communication.....	4-29
4.1.1.4.9.3.1	ECSNVCMFRT3.0 .....	4-29
4.1.1.5	Puget Sound .....	4-30
4.1.1.5.1	Puget Sound DSS .....	4-31
4.1.1.5.1.1	Puget Sound DSS Software .....	4-31
4.1.1.5.1.1.1	ECSPWSWMFD1.0.....	4-31
4.1.1.5.2	Puget Sound Traffic Controller.....	4-31
4.1.1.5.2.1	Puget Sound Traffic Controller Hardware.....	4-31

# DISTRIBUTION STANDARD SYSTEM

## Equipment Control System

September 16, 2004

4.1.1.5.2.1.1	ECSPWHWTRC1.0.....	4-31
4.1.1.5.2.2	Puget Sound Traffic Controller Software .....	4-32
4.1.1.5.2.2.1	ECSPWSWTRC2.0 .....	4-32
4.1.1.5.2.3	Puget Sound Traffic Controller Communication.....	4-32
4.1.1.5.2.3.1	ECSPWCMTRC3.0 .....	4-32
4.1.1.5.3	Puget Sound Database Controller .....	4-32
4.1.1.5.3.1	Puget Sound Database Controller Hardware .....	4-32
4.1.1.5.3.1.1	ECSPWHWDBA1.0 .....	4-32
4.1.1.5.3.2	Puget Sound Database Controller Software.....	4-33
4.1.1.5.3.2.1	ECSPWSWDBA2.0.....	4-33
4.1.1.5.3.3	Puget Sound Database Controller Communication .....	4-33
4.1.1.5.3.3.1	ECSPWCMDBA3.0.....	4-33
4.1.1.5.4	Puget Sound Carousel Subcontroller .....	4-34
4.1.1.5.4.1	Puget Sound Carousel Subcontroller Hardware .....	4-34
4.1.1.5.4.1.1	ECSPWHWCAR1.0 .....	4-34
4.1.1.5.4.2	Puget Sound Carousel Subcontroller Software.....	4-34
4.1.1.5.4.2.1	ECSPWSWCAR2.0.....	4-34
4.1.1.5.4.3	Puget Sound Carousel Subcontroller Communication .....	4-34
4.1.1.5.4.3.1	ECSPWCMCAR3.0.....	4-34
4.1.1.5.5	Puget Sound Conveyor Subcontroller.....	4-35
4.1.1.5.5.1	Puget Sound Conveyor Subcontroller Hardware .....	4-35
4.1.1.5.5.1.1	ECSPWHWCNV1.0 .....	4-35
4.1.1.5.5.2	Puget Sound Conveyor Subcontroller Software .....	4-36
4.1.1.5.5.2.1	ECSPWSWCNV2.0.....	4-36
4.1.1.5.5.3	Puget Sound Conveyor Subcontroller Communication .....	4-36
4.1.1.5.5.3.1	ECSPWCMCNV3.0.....	4-36
4.1.1.6	Richmond.....	4-37
4.1.1.6.1	Richmond DSS.....	4-38
4.1.1.6.1.1	Richmond DSS Software .....	4-38
4.1.1.6.1.1.1	ECSRVSWMFD1.0 .....	4-38
4.1.1.6.2	Richmond Traffic Controller .....	4-38
4.1.1.6.2.1	Richmond Traffic Controller Hardware.....	4-38
4.1.1.6.2.1.1	ECSRVHWTRC1.0 .....	4-38

**DISTRIBUTION STANDARD SYSTEM****Equipment Control System**September 16, 2004

---

4.1.1.6.2.2	Richmond Traffic Controller Software .....	4-39
4.1.1.6.2.2.1	ECSRVSWTRC2.0.....	4-39
4.1.1.6.2.3	Richmond Traffic Controller Communication.....	4-39
4.1.1.6.2.3.1	ECSRVCMTRC3.0.....	4-39
4.1.1.6.3	Richmond Database Controller.....	4-39
4.1.1.6.3.1	Richmond Database Controller Hardware .....	4-39
4.1.1.6.3.1.1	ECSRVHWDBA1.0.....	4-39
4.1.1.6.3.2	Richmond Database Controller Software .....	4-40
4.1.1.6.3.2.1	ECSRVSWDBA2.0 .....	4-40
4.1.1.6.3.3	Richmond Database Controller Communication .....	4-40
4.1.1.6.3.3.1	ECSRVCMDBA3.0 .....	4-40
4.1.1.6.4	Richmond Allen-Bradley PLC's (ABP) Subcontroller .....	4-40
4.1.1.6.4.1	Richmond ABP Subcontroller Hardware.....	4-40
4.1.1.6.4.1.1	ECSRVHWABP1.0 .....	4-40
4.1.1.6.4.2	Richmond ABP Subcontroller Software .....	4-41
4.1.1.6.4.2.1	ECSRVSWABP2.0 .....	4-41
4.1.1.6.4.3	Richmond ABP Subcontroller Communication.....	4-41
4.1.1.6.4.3.1	ECSRVCMABP3.0.....	4-41
4.1.1.7	New Cumberland .....	4-42
4.1.1.7.1	New Cumberland DSS .....	4-43
4.1.1.7.1.1	New Cumberland DSS Hardware .....	4-43
4.1.1.7.1.1.1	ECSS2HWMFID1.0.....	4-43
4.1.1.7.1.2	New Cumberland DSS Software .....	4-43
4.1.1.7.1.2.1	ECSS2SWMFD2.0 .....	4-43
4.1.1.7.2	New Cumberland Traffic Controller.....	4-43
4.1.1.7.2.1	New Cumberland Traffic Controller Hardware .....	4-43
4.1.1.7.2.1.1	ECSS2HWTRC1.0.....	4-43
4.1.1.7.2.2	New Cumberland Traffic Controller Software .....	4-44
4.1.1.7.2.2.1	ECSS2SWTRC2.0 .....	4-44
4.1.1.7.2.3	New Cumberland Traffic Controller Communication.....	4-44
4.1.1.7.2.3.1	ECSS2CMTRC3.0 .....	4-44
4.1.1.7.3	New Cumberland Data Base Subcontroller .....	4-44
4.1.1.7.3.1	New Cumberland Data Base Subcontroller Hardware .....	4-44
4.1.1.7.3.1.1	ECSS2HWDBA1.0.....	4-44

---

## DISTRIBUTION STANDARD SYSTEM

### Equipment Control System

September 16, 2004

4.1.1.7.3.2	New Cumberland Data Base Subcontroller Software.....	4-45
4.1.1.7.3.2.1	ECSS2SWDBA2.0.....	4-45
4.1.1.7.3.3	New Cumberland Data Base Subcontroller Communication .....	4-45
4.1.1.7.3.3.1	ECSS2CMDBA3.0 .....	4-45
4.1.1.7.4	New Cumberland Keypad Subcontroller .....	4-45
4.1.1.7.4.1	New Cumberland Keypad Subcontroller Hardware; Qty 2 .....	4-45
4.1.1.7.4.1.1	ECSS2HWKPD1.0 .....	4-45
4.1.1.7.4.2	New Cumberland Keypad Subcontroller Software; Qty 2 .....	4-46
4.1.1.7.4.2.1	ECSS2SWKPD2.0 .....	4-46
4.1.1.7.4.3	New Cumberland Keypad Subcontroller Communication .....	4-46
4.1.1.7.4.3.1	ECSS2CMKPD3.0.....	4-46
4.1.1.7.5	New Cumberland Towline Subcontroller .....	4-46
4.1.1.7.5.1	New Cumberland Towline Subcontroller Hardware .....	4-46
4.1.1.7.5.1.1	ECSS2HWTOW1.0 .....	4-46
4.1.1.7.5.2	New Cumberland Towline Subcontroller Software.....	4-47
4.1.1.7.5.2.1	ECSS2SWTOW2.0.....	4-47
4.1.1.7.5.3	New Cumberland Towline Subcontroller Communication .....	4-47
4.1.1.7.5.3.1	ECSS2CMTOW3.0.....	4-47
4.1.1.7.6	New Cumberland Pallet Conveyor Subcontroller.....	4-47
4.1.1.7.6.1	New Cumberland Pallet Conveyor Subcontroller Hardware.....	4-47
4.1.1.7.6.1.1	ECSS2HWPCY1.0.....	4-47
4.1.1.7.6.2	New Cumberland Pallet Conveyor Subcontroller Software .....	4-48
4.1.1.7.6.2.1	ECSS2SWPCY2.0 .....	4-48
4.1.1.7.6.3	New Cumberland Pallet Conveyor Subcontroller Communication.....	4-48
4.1.1.7.6.3.1	ECSS2CMPCY3.0 .....	4-48
4.1.1.7.7	New Cumberland Tote Conveyor Subcontroller .....	4-48
4.1.1.7.7.1	New Cumberland Tote Conveyor Subcontroller Hardware.....	4-48
4.1.1.7.7.1.1	ECSS2HWTCY1.0 .....	4-48
4.1.1.7.7.2	New Cumberland Tote Conveyor Subcontroller Software .....	4-49
4.1.1.7.7.2.1	ECSS2SWTCY2.0 .....	4-49
4.1.1.7.7.3	New Cumberland Tote Conveyor Subcontroller Communication.....	4-49
4.1.1.7.7.3.1	ECSS2CMTCY3.0 .....	4-49
4.1.1.7.8	New Cumberland Sortation Subcontroller.....	4-49

**DISTRIBUTION STANDARD SYSTEM****Equipment Control System**September 16, 2004

---

4.1.1.7.8.1	New Cumberland Sortation Subcontroller Hardware .....	4-49
4.1.1.7.8.1.1	ECSS2HWSRT1.0 .....	4-49
4.1.1.7.8.2	New Cumberland Sortation Subcontroller Software .....	4-50
4.1.1.7.8.2.1	ECSS2SWSRT2.0.....	4-50
4.1.1.7.8.3	New Cumberland Sortation Subcontroller Communication .....	4-50
4.1.1.7.8.3.1	ECSS2CMSRT3.0 .....	4-50
4.1.1.7.9	New Cumberland Workstations .....	4-50
4.1.1.7.9.1	New Cumberland Workstation Hardware; Qty-11 .....	4-50
4.1.1.7.9.1.1	ECSS2HWWKS1.0 .....	4-50
4.1.1.7.9.2	New Cumberland Workstation Software; Qty-11.....	4-51
4.1.1.7.9.2.1	ECSS2SWWKS2.0 .....	4-51
4.1.1.7.9.3	New Cumberland Workstation Communication; Qty-11 .....	4-51
4.1.1.7.9.3.1	ECSS2CMWKS3.0.....	4-51
4.1.1.7.10	New Cumberland AWOS Subcontroller.....	4-51
4.1.1.7.10.1	New Cumberland AWOS Subcontroller Hardware .....	4-51
4.1.1.7.10.1.1	ECSS2HWAWS1.0 .....	4-51
4.1.1.7.10.2	New Cumberland AWOS Subcontroller Software .....	4-51
4.1.1.7.10.2.1	ECSS2SWAWS2.0 .....	4-51
4.1.1.7.10.3	New Cumberland AWOS Subcontroller Communication.....	4-52
4.1.1.7.10.3.1	ECSS2CMAWS3.0.....	4-52
4.1.1.7.11	New Cumberland Active Item Subcontroller .....	4-52
4.1.1.7.11.1	New Cumberland Active Item Subcontroller Hardware.....	4-52
4.1.1.7.11.1.1	ECSS2HWAIS1.0.....	4-52
4.1.1.7.11.2	New Cumberland Active Item Subcontroller Software .....	4-52
4.1.1.7.11.2.1	ECSS2SWAIS2.0.....	4-52
4.1.1.7.11.3	New Cumberland Active Item Subcontroller Communication.....	4-53
4.1.1.7.11.3.1	ECSS2CMAIS3.0 .....	4-53
4.1.1.8	Pearl Harbor .....	4-54
4.1.1.8.1	Pearl Harbor DSS.....	4-55
4.1.1.8.1.1	Pearl Harbor DSS Software .....	4-55
4.1.1.8.1.1.1	ECSPHSWMFD1.0 .....	4-55
4.1.1.8.2	Pearl Harbor Traffic Controller .....	4-55
4.1.1.8.2.1	Pearl Harbor Traffic Controller Hardware.....	4-55
4.1.1.8.2.1.1	ECSPHHWTRC1.0.....	4-55

---

## DISTRIBUTION STANDARD SYSTEM

### Equipment Control System

September 16, 2004

4.1.1.8.2.2	Pearl Harbor Traffic Controller Software .....	4-55
4.1.1.8.2.2.1	ECSPHSWTRC2.0 .....	4-55
4.1.1.8.2.3	Pearl Harbor Traffic Controller Communication.....	4-55
4.1.1.8.2.3.1	ECSPHCMTRC3.0 .....	4-55
4.1.1.8.3	Pearl Harbor Carousel Subcontroller .....	4-56
4.1.1.8.3.1	Pearl Harbor Carousel Subcontroller Hardware .....	4-56
4.1.1.8.3.1.1	ECSPHHWCAR1.0 .....	4-56
4.1.1.8.3.2	Pearl Harbor Carousel Subcontroller Software.....	4-56
4.1.1.8.3.2.1	ECSPHSWCAR2.0.....	4-56
4.1.1.8.3.3	Pearl Harbor Carousel Subcontroller Communication .....	4-56
4.1.1.8.3.3.1	ECSPHCMCAR3.0.....	4-56
4.1.1.9	Guam.....	4-58
4.1.1.9.1	Guam DSS .....	4-59
4.1.1.9.1.1	Guam DSS Software .....	4-59
4.1.1.9.1.1.1	ECSGMSWMFD1.0 .....	4-59
4.1.1.9.2	Guam Traffic Controller .....	4-59
4.1.1.9.2.1	Guam Traffic Controller Hardware .....	4-59
4.1.1.9.2.1.1	ECSGMHWTRC1.0 .....	4-59
4.1.1.9.2.2	Guam Traffic Controller Software.....	4-59
4.1.1.9.2.2.1	ECSGMSWTRC2.0.....	4-59
4.1.1.9.2.3	Guam Traffic Controller Communication .....	4-60
4.1.1.9.2.3.1	ECSGMCMTRC3.0.....	4-60
4.1.1.9.3	Guam Carousel Subcontroller.....	4-60
4.1.1.9.3.1	Guam Carousel Subcontroller Hardware .....	4-60
4.1.1.9.3.1.1	ECSGMHWCAR1.0 .....	4-60
4.1.1.9.3.2	Guam Carousel Subcontroller Software .....	4-60
4.1.1.9.3.2.1	ECSGMSWCAR2.0.....	4-60
4.1.1.9.3.3	Guam Carousel Subcontroller Communication .....	4-61
4.1.1.9.3.3.1	ECSGMCMCAR3.0 .....	4-61
4.1.1.10	Yokosuka .....	4-62
4.1.1.10.1	Yokosuka DSS .....	4-63
4.1.1.10.1.1	Yokosuka DSS Software.....	4-63
4.1.1.10.1.1.1	ECSYJSWMFD1.0 .....	4-63
4.1.1.10.2	Yokosuka Traffic Controller.....	4-63

## DISTRIBUTION STANDARD SYSTEM

### Equipment Control System

September 16, 2004

4.1.1.10.2.1	Yokosuka Traffic Controller Hardware .....	4-63
4.1.1.10.2.1.1	ECSYJHWTRC1.0 .....	4-63
4.1.1.10.2.2	Yokosuka Traffic Controller Software .....	4-63
4.1.1.10.2.2.1	ECSYJSWTRC2.0 .....	4-63
4.1.1.10.2.3	Yokosuka Traffic Controller Communication .....	4-63
4.1.1.10.2.3.1	ECSYJCMTRC3.0 .....	4-64
4.1.1.10.3	Yokosuka Carousel Subcontroller .....	4-64
4.1.1.10.3.1	Yokosuka Carousel Subcontroller Hardware.....	4-64
4.1.1.10.3.1.1	ECSYJHWCAR1.0.....	4-64
4.1.1.10.3.2	Yokosuka Carousel Subcontroller Software .....	4-64
4.1.1.10.3.2.1	ECSYJSWCAR2.0.....	4-64
4.1.1.10.3.3	Yokosuka Carousel Subcontroller Communication.....	4-65
4.1.1.10.3.3.1	ECSYJCMCAR3.0 .....	4-65
4.1.1.11	Tracy .....	4-66
4.1.1.11.1	Tracy DSS .....	4-67
4.1.1.11.1.1	Tracy DSS Hardware .....	4-67
4.1.1.11.1.1.1	ECSJ2HWMFD1.0 .....	4-67
4.1.1.11.1.2	Tracy DSS Software .....	4-67
4.1.1.11.1.2.1	ECSJ2SWMFD2.0 .....	4-67
4.1.1.11.2	Tracy Traffic Controller.....	4-67
4.1.1.11.2.1	Tracy Traffic Controller Hardware .....	4-67
4.1.1.11.2.1.1	ECSJ2HWTRC1.0 .....	4-67
4.1.1.11.2.2	Tracy Traffic Controller Software .....	4-68
4.1.1.11.2.2.1	ECSJ2SWTRC2.0.....	4-68
4.1.1.11.2.3	Tracy Traffic Controller Communication .....	4-68
4.1.1.11.2.3.1	ECSJ2CMTRC3.0.....	4-68
4.1.1.11.3	Tracy Data Base Subcontroller .....	4-68
4.1.1.11.3.1	Tracy Data Base Subcontroller Hardware .....	4-68
4.1.1.11.3.1.1	ECSJ2HWDBA1.0.....	4-68
4.1.1.11.3.2	Tracy Data Base Subcontroller Software.....	4-69
4.1.1.11.3.2.1	ECSJ2SWDBA2.0 .....	4-69
4.1.1.11.3.3	Tracy Data Base Subcontroller Communication .....	4-69
4.1.1.11.3.3.1	ECSJ2CMDBA3.0 .....	4-69

## DISTRIBUTION STANDARD SYSTEM

### Equipment Control System

September 16, 2004

4.1.1.11.4	Tracy AWOS Subcontroller.....	4-69
4.1.1.11.4.1	Tracy AWOS Subcontroller Hardware .....	4-69
4.1.1.11.4.1.1	ECSJ2HWAWS1.0 .....	4-69
4.1.1.11.4.2	Tracy AWOS Subcontroller Software .....	4-70
4.1.1.11.4.2.1	ECSJ2SWAWS2.0.....	4-70
4.1.1.11.4.3	Tracy AWOS Subcontroller Communication.....	4-70
4.1.1.11.4.3.1	ECSJ2CMAWS3.0.....	4-70
4.1.1.11.5	Tracy CSF Subcontroller .....	4-70
4.1.1.11.5.1	Tracy CSF Subcontroller Hardware.....	4-70
4.1.1.11.5.1.1	ECSJ2HWCSF1.0.....	4-70
4.1.1.11.5.2	Tracy CSF Subcontroller Software.....	4-71
4.1.1.11.5.2.1	ECSJ2SWCSF2.0.....	4-71
4.1.1.11.5.3	Tracy CSF Subcontroller Communication.....	4-71
4.1.1.11.5.3.1	ECSJ2CMCSF3.0 .....	4-71
4.1.1.11.6	Tracy Carousel Subcontroller .....	4-71
4.1.1.11.6.1	Tracy Carousel Subcontroller Hardware .....	4-71
4.1.1.11.6.1.1	ECSJ2HWCAR1.0.....	4-71
4.1.1.11.6.2	Tracy Carousel Subcontroller Software.....	4-72
4.1.1.11.6.2.1	ECSJ2SWCAR2.0 .....	4-72
4.1.1.11.6.3	Tracy Carousel Subcontroller Communication .....	4-72
4.1.1.11.6.3.1	ECSJ2CMCAR3.0 .....	4-72
4.1.1.11.7	Tracy Sorter Controller, Qty. 2 .....	4-72
4.1.1.11.7.1	Tracy Sorter Controller Hardware .....	4-72
4.1.1.11.7.1.1	ECSJ2HWSRT1.0.....	4-72
4.1.1.11.7.2	Tracy Sorter Controller Software.....	4-73
4.1.1.11.7.2.1	ECSJ2SWSRT2.0 .....	4-73
4.1.1.11.7.3	Tracy Sorter Controller Communication .....	4-73
4.1.1.11.7.3.1	ECSJ2CMSRT3.0 .....	4-73
4.1.1.12	Oklahoma City .....	4-74
4.1.1.12.1	Oklahoma City DSS.....	4-75
4.1.1.12.1.1	Oklahoma City DSS Software .....	4-75
4.1.1.12.1.1.1	ECSOOSWMFD1.0.....	4-75
4.1.1.12.2	Oklahoma City Traffic Controller .....	4-75
4.1.1.12.2.1	Oklahoma City Traffic Controller Hardware.....	4-75

**DISTRIBUTION STANDARD SYSTEM****Equipment Control System**September 16, 2004

---

4.1.1.12.2.1.1 ECSOOHWTRC1.0.....	4-75
4.1.1.12.2.2 Oklahoma City Traffic Controller Software .....	4-76
4.1.1.12.2.2.1 ECSOOSWTRC2.0.....	4-76
4.1.1.12.2.3 Oklahoma City Traffic Controller Communication.....	4-76
4.1.1.12.2.3.1 ECSOOCMTRC3.0 .....	4-76
4.1.1.12.3 Oklahoma City Data Base Subcontroller .....	4-76
4.1.1.12.3.1 Oklahoma City Data Base Subcontroller Hardware .....	4-76
4.1.1.12.3.1.1 ECSOOHWDBA1.0 .....	4-76
4.1.1.12.3.2 Oklahoma City Data Base Subcontroller Software .....	4-77
4.1.1.12.3.2.1 ECSOOSWDBA2.0.....	4-77
4.1.1.12.3.3 Oklahoma City Data Base Subcontroller Communication .....	4-77
4.1.1.12.3.3.1 ECSOOCMDBA3.0.....	4-77
4.1.1.12.4 Oklahoma City AWOS/ECS Subcontroller .....	4-77
4.1.1.12.4.1 Oklahoma City AWOS/ECS Subcontroller Hardware .....	4-77
4.1.1.12.4.1.1 ECSOOHWAWS1.0.....	4-77
4.1.1.12.4.2 Oklahoma City AWOS/ECS Subcontroller Software.....	4-78
4.1.1.12.4.2.1 ECSOOSWAWS2.0.....	4-78
4.1.1.12.4.3 Oklahoma City AWOS/ECS Subcontroller Communication .....	4-78
4.1.1.12.4.3.1 ECSOOCMAWS3.0 .....	4-78
4.1.1.12.5 Oklahoma City Tote/Package Conveyor Subcontroller.....	4-78
4.1.1.12.5.1 Oklahoma City Tote/Package Conveyor Subcontroller Hardware .....	4-78
4.1.1.12.5.1.1 ECSOOHWTPK1.0 .....	4-78
4.1.1.12.5.2 Oklahoma City Tote/Package Conveyor Subcontroller Software .....	4-79
4.1.1.12.5.2.1 ECSOOSWTPK2.0.....	4-79
4.1.1.12.5.3 Oklahoma City Tote/Package Conveyor Subcontroller Communication .....	4-79
4.1.1.12.5.3.1 ECSOOCMTPK3.0.....	4-79
4.1.1.13 DDMA RICHMOND.....	4-80
4.1.1.13.1 Mapping Agency DSS .....	4-81
4.1.1.13.1.1 Mapping Agency DSS Software .....	4-81
4.1.1.13.1.1.1 ECSMASWMFD1.0 .....	4-81
4.1.1.13.2 Mapping Agency Traffic Controller .....	4-81
4.1.1.13.2.1 Mapping Agency Traffic Controller Hardware .....	4-81
4.1.1.13.2.1.1 ECSMAHWTRC1.0 .....	4-81

**DISTRIBUTION STANDARD SYSTEM****Equipment Control System**September 16, 2004

---

4.1.1.13.2.2	Mapping Agency Traffic Controller Software.....	4-82
4.1.1.13.2.2.1	ECSMASWTRC2.0 .....	4-82
4.1.1.13.2.3	Mapping Agency Traffic Controller Communication .....	4-82
4.1.1.13.2.3.1	ECSMACMTRC3.0.....	4-82
4.1.1.13.3	Mapping Agency Database Controller.....	4-82
4.1.1.13.3.1	Mapping Agency Database Controller Hardware.....	4-82
4.1.1.13.3.1.1	ECSMAHWDBA1.0.....	4-82
4.1.1.13.3.2	Mapping Agency Database Controller Software .....	4-83
4.1.1.13.3.2.1	ECSMASWDBA2.0 .....	4-83
4.1.1.13.3.3	Mapping Agency Database Controller Communications .....	4-83
4.1.1.13.3.3.1	ECSMACMDBA3.0 .....	4-83
4.1.1.13.4	Mapping Agency AWOS Subcontroller .....	4-83
4.1.1.13.4.1	Mapping Agency AWOS Subcontroller Hardware .....	4-83
4.1.1.13.4.1.1	ECSMAHWAWS1.0 .....	4-83
4.1.1.13.4.2	Mapping Agency AWOS Subcontroller Software.....	4-84
4.1.1.13.4.2.1	ECSMASWAWS2.0 .....	4-84
4.1.1.13.4.3	Mapping Agency AWOS Subcontroller Communications.....	4-84
4.1.1.13.4.3.1	ECSMACMAWS3.0.....	4-84
4.1.1.13.4.4	Mapping Agency HK STACKER Subcontroller Hardware .....	4-84
4.1.1.13.4.4.1	ECSMAHWSTK1.0.....	4-84
4.1.1.13.4.5	Mapping Agency HK STACKER Subcontroller Software .....	4-85
4.1.1.13.4.5.1	ECSMASWSTK2.0 .....	4-85
4.1.1.13.4.6	Mapping Agency HK STACKER Subcontroller Communications.....	4-85
4.1.1.13.4.6.1	ECSMACMSTK3.0.....	4-85
4.1.1.14	DDDE GERMERSHEIM GERMANY .....	4-86
4.1.1.14.1	Defense Depot Europe DSS .....	4-87
4.1.1.14.1.1	Defense Depot Europe DSS Software .....	4-87
4.1.1.14.1.1.1	ECSDESWMFD1.0 .....	4-87
4.1.1.14.2	Defense Depot Europe Traffic Controller.....	4-87
4.1.1.14.2.1	Defense Depot Europe Traffic Controller Hardware.....	4-87
4.1.1.14.2.1.1	ECSDEHWTRC1.0 .....	4-87
4.1.1.14.2.2	Defense Depot Europe Traffic Controller Software .....	4-88
4.1.1.14.2.2.1	ECSDESWTRC2.0 .....	4-88

4.1.1.14.2.3	Defense Depot Europe Traffic Controller Communication.....	4-88
4.1.1.14.2.3.1	ECSDECMTRC3.0.....	4-88
4.1.1.14.3	Defense Depot Europe Database Controller .....	4-88
4.1.1.14.3.1	Defense Depot Europe Database Controller Hardware .....	4-88
4.1.1.14.3.1.1	ECSDEHWDBA1.0.....	4-88
4.1.1.14.3.2	Defense Depot Europe Database Controller Software.....	4-89
4.1.1.14.3.2.1	ECSDESWDBA2.0 .....	4-89
4.1.1.14.3.3	Defense Depot Europe Database Controller Communications.....	4-89
4.1.1.14.3.3.1	ECSDECMDBA3.0 .....	4-89
4.1.1.14.4	Defense Depot Europe AWOS/Conveyor Subcontroller.....	4-89
4.1.1.14.4.1	Defense Depot Europe AWOS/Conveyor Subcontroller Hardware .....	4-89
4.1.1.14.4.1.1	ECSDEHWAWS1.0 .....	4-89
4.1.1.14.4.2	Defense Depot Europe AWOS/Conveyor Subcontroller Software .....	4-89
4.1.1.14.4.2.1	ECSDESWAWS2.0 .....	4-89
4.1.1.14.4.3	Defense Depot Europe AWOS/Conveyor Subcontroller Communications .....	4-90
4.1.1.14.4.3.1	ECSDECMAWS3.0.....	4-90
4.1.2	Software .....	4-90
4.1.2.1	ECS Software.....	4-90
4.1.2.2	ECS Objects.....	4-90
4.1.2.3	ECS Classes .....	4-90
5.0	NOTES.....	5-1

## TABLE OF FIGURES

Figure 4.1.1.1-1	Hardware Configuration Defense Distribution Depot San Diego.....	4-3
Figure 4.1.1.2-1	Hardware Configuration Defense Distribution Depot Hill .....	4-10
Figure 4.1.1.3-1	Hardware Configuration Defense Distribution Depot Jacksonville.....	4-16
Figure 4.1.1.4-1	Hardware Configuration Defense Distribution Depot Norfolk.....	4-20
Figure 4.1.1.5-1	Hardware Configuration Defense Distribution Depot Puget Sound .....	4-30
Figure 4.1.1.6-1	Hardware Configuration Defense Distribution Depot Richmond.....	4-37
Figure 4.1.1.7-1	Hardware Configuration Defense Distribution Depot New Cumberland.....	4-42
Figure 4.1.1.8-1	Hardware Configuration Defense Distribution Depot Pearl Harbor.....	4-54
Figure 4.1.1.9-1	Hardware Configuration Defense Distribution Depot Guam.....	4-58
Figure 4.1.1.10-1	Hardware Configuration Defense Distribution Depot Yokosuka .....	4-62
Figure 4.1.1.11-1	Hardware Configuration Defense Distribution Depot Tracy .....	4-66
Figure 4.1.1.12-1	Hardware Configuration Defense Distribution Depot Oklahoma City.....	4-74
Figure 4.1.1.13-1	Hardware Configuration Defense Mapping Agency Richmond .....	4-80
Figure 4.1.1.14-1	Hardware Configuration Defense Distribution Depot Europe, Germany .....	4-86

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1.0        **SCOPE**

1.1        **Identification**

This document establishes the System Subsystem Design Description (SSDD) for the creation of the Equipment Control System (ECS) for installation at the following locations:

- Defense Distribution Depot San Diego, CA (DDDC)
- Defense Distribution Depot Norfolk, VA (DDNV)
- Defense Distribution Depot Jacksonville, FL (DDJF)
- Defense Distribution Depot Puget Sound, WA (DDPW)
- Defense Distribution Depot Hill, UT (DDHU)
- Defense Distribution Depot at Richmond, VA (DDRV),
- Defense Distribution Depot at New Cumberland, PA (DDSP-E EDC),
- Defense Distribution Depot Pearl Harbor, HI (DDPH)
- Defense Distribution Depot Guam, (DDPH)
- Defense Distribution Depot Yokosuka, Japan (DDYJ)
- Defense Distribution Depot Oklahoma City, OK (DDOO)
- Defense Distribution Depot at Tracy, CA (DDJC-Tracy)
- Defense Distribution Depot at Red River, TX (DDRT)
- Defense Distribution Mapping Activity at Richmond, VA (DDMA)
- Defense Distribution Depot Europe at Germersheim, Germany (DDDE)

The requirements address all hardware to drive the following:

- NISTARS Laser Scanner Controller (NLSC),
- NISTARS Automated Storage and Retrieval System (ASRS) Controller (NMC),
- Navy STACKMAN Unit Loader,
- Navy and DLA Automated Guided Vehicle (AGV),
- DLA Consolidated Subsistence Facility (CSF),
- Navy and DLA Carousel Controllers,
- Navy and Air Force ASRS Controllers,
- Navy, Air Force and DLA Conveyors,
- DLA Allen-Bradley PLC,
- DLA Towline,
- DLA Pallet Conveyor,
- DLA Tote/Package Conveyor,
- DLA Sorter,
- DLA Automated Weigh and Offer Systems (AWOS),
- Air Force Dimension and Weigh Systems (DAWS),
- DLA Active Item Scanner System
- DLA TRIAX Automated Storage and Retrieval System (ASRS) Controller (TRIAX) and
- communications interface with DSS (Upper Tier) functions.

### 1.1.1      **System Overview**

In August 1994, the Defense Distribution Systems Center (DDSC) authorized Peat Marwick (KPMG) to study the feasibility of a single equipment control system for use at all Defense Logistics Agency (DLA) depots that utilize computer-controlled mechanization. The recommendations of this study were presented in Report 3 of the KPMG study entitled "Lower Tier Standardization Evaluation". The study team proposed a portable, low-functionality system that would receive a single, Standard Movement Message (SMM) for all movement requests. DSDC proposed ECS as an equipment control system that would meet these ideals. On August 1, 1995, DDSC authorized DSDC to commence work on the development of ECS.

The purpose of ECS is to eliminate the need for the Distribution Standard System (DSS) to be involved in the mechanics of material movement at DLA depots. ECS accepts a request to move material from DSS using an SMM and will accomplish the move with no further input from DSS.

In the original version of ECS, Phase 1, the code necessary for implementation at the DLA Depots in Jacksonville, FL (DDJF), Hill AFB, UT (DDHU), Norfolk, VA (DDNV), Puget Sound, WA (DDPW), and San Diego, CA (DDDC) was developed. In Phase 2 of ECS, the code necessary for implementation at the DLA Depots in Mechanicsburg, PA (DDSP-W), and Richmond, VA (DDRV), was developed. In Phase 3, ECS, the code for implementation at the DLA Depot in New Cumberland, PA (DDSP-E) was developed. In Phase 4, ECS, the code necessary for implementation at the DLA Depots in San Joaquin Tracy, CA (DDJC-Tracy), Warner Robins, GA (DDWG), and the code for AWOS/DAWS was developed. In Phase 5, ECS, the code necessary for implementation at the DLA Depots in OCONUS Pearl Harbor, HI (DDPH), Guam (DDPH-Guam), and Yokosuka Japan (DDYJ) was developed. The expansion of the control number and conveyance ID fields from five (5) to seven (7) positions was also completed for all sites on that same baseline, and additional code for DLA Depot in San Joaquin Tracy, CA (DDJC-Tracy) was developed. Additional code is being developed to support the conveyor replacement and the Freight Terminal at Building Y-109 and W143 at DDNV. The next group of changes includes an Active Item Package Conveyor at DDSP-E, a Tote/Package Conveyor system at DDOO and a Vertical/Horizontal Tote Conveyor at DDPW. The following changes supported the replacement of the Ministackers at DDHU and a new ECS User Interface at DDNV to support the Ministacker end of aisle operation for auto and stand alone mode. The next set of changes included the Stackman ASRS at DDDC San Diego, and the Mission/CCP Sorters at DDJC Tracy. The next changes supported the AWOS at DDMA Richmond, VA. Additional changes support the tote package conveyors at DDDE Germersheim, Germany. Back to DDMA Richmond, VA included changes for the singe aisle ASRS.

1.1.1.1      **Document Overview**

This document describes the hardware requirements DSS ECS.

Section 2 outlines referenced documents. Section 3 addresses system-wide design decisions. Section 4 provides system architectural design. Section 5 lists any associated notes.

2.0        **REFERENCED DOCUMENTS**

KPMG Peat Marwick L.L.P report, subject "Lower Tier Standardization Evaluation"

Military Standard Software Development and Documentation Standards, MIL-STD-498

DSDC Project Guide for Implementing CMM Level 2, DSDC 8120.001

DSS Standards & Procedures (MSS/DS-XM0)

Borland C++ Documentation

Microsoft Developer Kit

Microsoft Windows NT Server Documentation

Microsoft SNA Server Documentation

Oracle8 Database and System Administration Guide

Advanced Windows. Jeffrey Richter. ISBN - 1-55615-677-4

Inside Windows NT. Helen Cluster. ISBN - 1-55615-481-X

Mastering Windows NT Programming. B. Myers, E. Hamer. ISBN - 0-7821-1264-1

Programming Windows. Charles Petzold. ISBN - 1-55615-395-3

Windows NT: A Developers Guide. Kevin Goodman. ISBN - 1-55851-306-X

Windows NT Unleashed. Robert Cowart. ISBN - 0-672-30685-9

DDC Environmental Test Plan

ECS Project Management Plan, latest version

DSS INFO/MAN REFERENCE GUIDE for ENVIRONMENTAL TEST, IOC and PRODUCTION

DSS SECS Psuedocoding Standard

DSS ECS Software Development Plan (SDP), DI-IPSC-81427, archived version dated November 1, 1996

Operation Concept Description (OCD), DI-IPSC-81430, latest version

Interface Requirements Specifications (IRS), DI-IPSC-81434, archived version  
dated December 14, 2001

Interface Design Description (IDD), DI-IPSC-81436, latest version

Database Design Description (DBDD), DI-IPSC-81437, latest version

System/Subsystem Specification (SSS), DI-IPSC-81431, latest version

System/Subsystem Design Description (SSDD), DI-IPSC-81432, latest version

Software Design Description (SDD), DI-IPSC-81435, latest version

Software Requirements Specification (SRS), DI-IPSC-81433, latest version

Software Installation Plan (SIP), DI-IPSC-81428, latest version

Software Product Specification (SPS), DI-IPSC-81441, latest version

Software User Manual (SUM), DI-IPSC-81443, latest version

ECS Site Survey - Defense Distribution Depot Hill, UT - Memorandum for the Record, dated November 20, 1995

ECS Site Survey - Defense Distribution Depot San Diego, CA - Memorandum for the Record, dated November 20, 1995

ECS Site Survey - Defense Distribution Depot Jacksonville, FL - Memorandum for the Record, dated March 6, 1996

ECS Site Survey - Defense Distribution Depot Norfolk, VA - Memorandum for the Record, dated March 7, 1996

ECS Site Survey - Defense Distribution Depot Puget Sound, WA - Memorandum for the Record, dated March 15, 1996

ECS Site Survey - Defense Distribution Depot Richmond, VA - Memorandum for the Record, dated August 14, 1996

ECS Site Survey - Defense Distribution Depot Mechanicsburg, PA - Memorandum for the Record, dated August 29, 1996

Amendment to DSS-SP5-376, SCR Amendment for ECS Interface with IMC  
Walk & Pick

DDSP-D Memorandum for DSDC-MDL through DDRE-T, "Cart Flow Information for Standard ECS" with attachment

ECS Site Survey - Defense Distribution Depot New Cumberland, PA - Memorandum for the Record, April 28, 1998

ECS Site Survey - Defense Distribution Depot Tracy, CA - Memorandum for the Record, dated February 23, 1999

ECS Site Survey - Defense Distribution Depot Yokosuka, Japan - Memorandum for the Record

ECS Site Survey - Defense Distribution Depot Pearl Harbor, Hawaii - Memorandum for the Record

ECS Site Survey - Defense Distribution Depot Guam - Memorandum for the Record

ECS Site Survey - Defense Distribution Depot Oklahoma City, OK - Memorandum for the Record

ECS Site Survey - Defense Distribution Depot Warner Robins, GA - Memorandum for the Record

ECS Site Survey - Defense Distribution Depot Red River, TX - Memorandum for the record

ECS Design Requirement Criteria for Triax - Defense Distribution Depot Norfolk, VA – Design Meeting Minutes 05 December 2000

Technical Specification for Upgrade of TRIAX AS/RS, Bldg. W-143, DDNV - TRIAX Project #SP3100-00-C-0027 – Defense Distribution Depot Norfolk, VA

Technical Specification for Active Item Scanner System, Building 2001, DDSP - Defense Distribution Depot Susquehanna, PA

Technical Specification for Replace Tote Conveyor System, Floors 1-4, Building W-143 DDNV - Defense Distribution Depot Norfolk, VA

Technical Specification for Freight Terminal Mechanization System, Building Y-109, DDNV - Defense Distribution Depot Norfolk, VA

Technical Specification for Building 467 Vertical Tote Conveyor Replacement Project for DDPW dated July 16, 2002.

ECS Site Survey - Defense Distribution Depot Tracy - Memorandum for the record.

3.0        **SYSTEM-WIDE DESIGN DECISIONS**

All system-wide design decisions are explicit in the system requirements or deferred to the design of the software units in section 4.0 System Architectural Design.

## 4.0 SYSTEM ARCHITECTURAL DESIGN

### 4.1 System Components

#### 4.1.1 ECS HWCI

Hardware, System Software, and Communication requirements for the ECS are defined by a breakdown of the system components. Each system component is comprised of a unique number that represents the site, category, and controller/subcontroller. To help the reader identify the system component, letter designations are used.

Pos 1-3	"ECS"	-	Equipment Control System
Pos 4-5	"DC"	-	San Diego, California
Pos 4-5	"GM"	-	Guam
Pos 4-5	"HU"	-	Hill, Utah
Pos 4-5	"JF"	-	Jacksonville, Florida
Pos 4-5	"J1"	-	Sharpe, California
Pos 4-5	"J2"	-	Tracy, California
Pos 4-5	"NV"	-	Norfolk, Virginia
Pos 4-5	"OO"	-	Oklahoma City, Oklahoma
Pos 4-5	"PH"	-	Pearl Harbor, Hawaii
Pos 4-5	"PW"	-	Puget, Washington
Pos 4-5	"S1"	-	Mechanicsburg, Pennsylvania
Pos 4-5	"S2"	-	New Cumberland, Pennsylvania
Pos 4-5	"WG"	-	Warner Robins, Georgia
Pos 4-5	"YJ"	-	Yokosuka, Japan
Pos 4-5	"RT"	-	Red River, Texas
Pos 6-7	"HW"	-	Hardware
Pos 6-7	"SW"	-	Software
Pos 6-7	"CM"	-	Communication
Pos 8-10	"MFD"	-	Mainframe DSS
Pos 8-10	"TRC"	-	Traffic Controller
Pos 8-10	"NAS"	-	NLSC/AGV Subcontroller
Pos 8-10	"CAR"	-	Carousel Subcontroller
Pos 8-10	"STK"	-	Stacker Subcontroller
Pos 8-10	"STM"	-	STACKMAN Subcontroller
Pos 8-10	"V52"	-	Norfolk V-52 Stacker
Pos 8-10	"NLS"	-	Norfolk NLSC
Pos 8-10	"ABP"	-	Allen-Bradley Subcontroller
Pos 8-10	"AGV"	-	AGV Subcontroller
Pos 8-10	"HPR"	-	Mechanicsburg Receiving Carousel Subcontroller
Pos 8-10	"HPP"	-	Mechanicsburg Packing Carousel Subcontroller
Pos 8-10	"KPD"	-	New Cumberland Keypad Subcontroller
Pos 8-10	"TOW"	-	New Cumberland Towline Subcontroller

Pos 8-10	"PCY"	-	New Cumberland Pallet Conveyor Subcontroller
Pos 8-10	"TCY"	-	New Cumberland Tote Conveyor Subcontroller
Pos 8-10	"SRT"	-	New Cumberland Sortation Subcontroller
Pos 8-10	"AIS"	-	New Cumberland Active Item Subcontroller
Pos 8-10	"AWS"	-	AWOS Subcontroller
Pos 8-10	"CSF"	-	Tracy Consolidated Subsistence Facility
Pos 8-10	"TRX"	-	Norfolk TRIAX Subcontroller
Pos 8-10	"DBA"	-	Data Base Subcontroller
Pos 8-10	"WKS"	-	ECS Workstation Subcontroller
Pos 8-10	"TPK	-	Tote/Package Conveyor Subcontroller
Pos 11-14	"N.NN"	-	Unique number

Figures 4.1.1.1-1 through 4.1.1.14-1 contain detailed graphical layouts of the physical interface requirements between controller and subcontrollers for each installation.

Growth capabilities have been provided at the highest level with the potential to add additional Pentium PCs to available ports on the Ethernet hub at each installation or the capability to add another subcontroller function to an existing Pentium PC.

4.1.1.1 San Diego

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT SAN DIEGO  
SAN DIEGO, CA

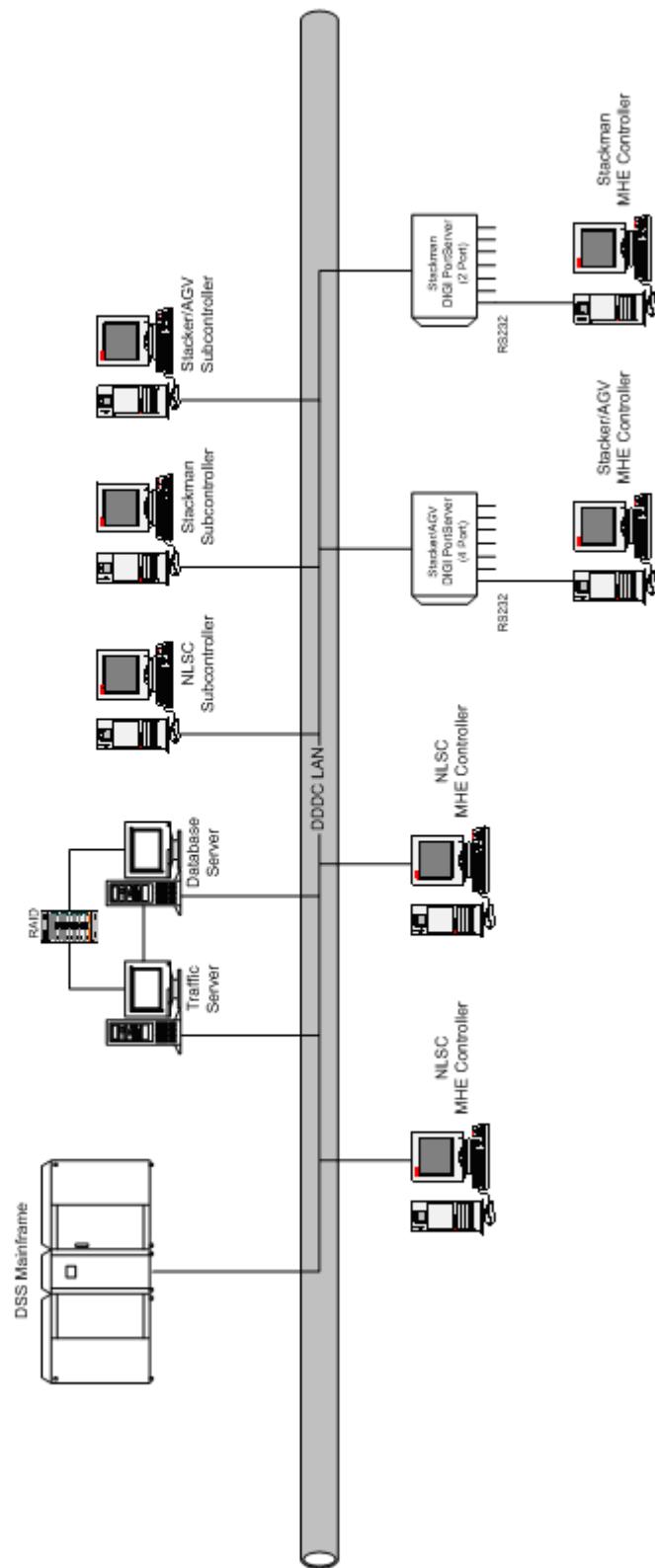


Figure 4.1.1.1-1 Hardware Configuration Defense Distribution Depot San Diego

4.1.1.1.1     **San Diego DSS**

4.1.1.1.1.1    **San Diego DSS Hardware**

4.1.1.1.1.1.1   **ECSDCHWMFD1.0**

None

4.1.1.1.1.2   **San Diego DSS Software**

4.1.1.1.1.2.1   **ECSDCSWMFD2.0**

ECSDCSWMFD2.0              IBM MQSeries software. Will be installed with the DSS implementation.

4.1.1.1.2     **San Diego Traffic Controller**

4.1.1.1.2.1   **San Diego Traffic Controller Hardware**

4.1.1.1.2.1.1   **ECSDCHWTRC1.0**

ECSDCHWTRC1.0              Traffic Controller Server; Intel 1.13 GHz Pentium III Processor  
ECSDCHWTRC1.1              512K Cache  
ECSDCHWTRC1.2              512 MB RAM (Expandable to 1 GB)  
ECSDCHWTRC1.3              1.44MB 3.5" Floppy Drive  
ECSDCHWTRC1.4              15" SVGA Color Monitor .28 Non-Interlaced  
ECSDCHWTRC1.5              PCI SVGA Video Card, 2 MB RAM  
ECSDCHWTRC1.6              18.0 GB SCSI Disk Drive; Qty 3  
ECSDCHWTRC1.7              PVT100T, DDS4, 20/40G, Internal Tape Unit  
ECSDCHWTRC1.8              Intel PRO 100+ LAN Card (100/10Baset)  
ECSDCHWTRC1.9              Redundant Power Supply  
ECSDCHWTRC1.10             Tower Chassis  
ECSDCHWTRC1.11             Keyboard, Standard 101 Key  
ECSDCHWTRC1.12             4 PCI, 2 ISA/PCI Slot Shared  
ECSDCHWTRC1.13             PERC3/DC, 128MB RAID Controller; Qty 2  
ECSDCHWTRC1.14             24X Speed Internal IDE CD-ROM  
ECSDCHWTRC1.15             Microsoft Mouse  
ECSDCHWTRC1.16             1 Parallel, 2 Serial Ports  
ECSDCHWTRC1.17             1X6 Hot Swappable Backplane  
ECSDCHWTRC1.18             Dell PowerVault 221S Disk System w/4  
ECSDCHWTRC1.19             18.0GB Hard Drive and Redundant Power Supply  
                              UPS (110v), 3000 Watt w/ cable and software to support Windows NT; DB9M - DB25M Adapter

**4.1.1.1.2.2 San Diego Traffic Controller Software**

**4.1.1.1.2.2.1 ECSDCSWTRC2.0**

ECSDCSWTRC2.0	Microsoft Windows 2000 Advanced Server, w/SP4
ECSDCSWTRC2.1	IBM MQSeries Version 5.2.1
ECSDCSWTRC2.3	Oracle 9i for Windows Database
ECSDCSWTRC2.4	Oracle Failsafe for Windows Version 3.3.2

**4.1.1.1.2.3 San Diego Traffic Controller Communication**

**4.1.1.1.2.3.1 ECSDCCMTRC3.0**

ECSDCCMTRC3.1	RJ45 Cable 25-ft.; Qty-1
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**4.1.1.1.3 San Diego Database Controller**

**4.1.1.1.3.1 San Diego Database Controller Hardware**

**4.1.1.1.3.1.1 ECSDCHWDBA1.0**

ECSDCHWDBA1.0	Database Controller Server; Intel 1.13 GHz Pentium III Processor
ECSDCHWDBA1.1	512K Cache
ECSDCHWDBA1.2	512 MB RAM (Expandable to 1 GB)
ECSDCHWDBA1.3	1.44MB 3.5" Floppy Drive
ECSDCHWDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSDCHWDBA1.5	PCI SVGA Video Card, 2 MB RAM
ECSDCHWDBA1.6	18.0 GB SCSI Disk Drive; Qty 3
ECSDCHWDBA1.7	PVT100T, DDS4, 20/40G, Internal Tape Unit
ECSDCHWDBA1.8	Intel PRO 100+ LAN Card (100/10BASET)
ECSDCHWDBA1.9	Redundant Power Supply
ECSDCHWDBA1.10	Tower Chassis
ECSDCHWDBA1.11	Keyboard, Standard 101 Key
ECSDCHWDBA1.12	4 PCI, 2 ISA/PCI Slot Shared
ECSDCHWDBA1.13	PERC3/DC, 128MB RAID Controller; Qty 2
ECSDCHWDBA1.14	24X Speed Internal IDE CD-ROM
ECSDCHWDBA1.15	Microsoft Mouse
ECSDCHWDBA1.17	1 Parallel, 2 Serial Ports
ECSDCHWDBA1.18	1X6 Hot Swappable Backplane

**4.1.1.1.3.2 San Diego Database Controller Software**

**4.1.1.1.3.2.1 ECSDCSWDBA2.0**

ECSDCSWDBA2.0	Microsoft Windows 2000 Advanced Server, w/SP4
ECSDCSWDBA2.1	IBM MQSeries Version 5.2.1
ECSDCSWDBA2.3	Oracle 9i for Windows Database
ECSDCSWDBA2.4	Oracle Failsafe for Windows Version 3.3.2.

**4.1.1.1.3.3 San Diego Database Controller Communication**

**4.1.1.1.3.3.1 ECSDCCMDBA3.0**

ECSDCCMDBA3.1	RJ45 Cable 25-ft.; Qty-1
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**4.1.1.1.4 San Diego NLSC Subcontroller**

**4.1.1.1.4.1 San Diego NLSC Subcontroller Hardware**

**4.1.1.1.4.1.1 ECSDCHWNAS1.0**

ECSDCHWNAS1.0	NLSC Subcontroller; Intel 1.8 GHz Pentium 4 Processor
ECSDCHWNAS1.1	256K Cache
ECSDCHWNAS1.2	256 MB RAM (Expandable to 512 MB)
ECSDCHWNAS1.3	1.44MB 3.5" Floppy Drive
ECSDCHWNAS1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSDCHWNAS1.5	32MB ATI Rage Ultra 128 (Video Card)
ECSDCHWNAS1.6	40 GB ATA/100 Disk Drive
ECSDCHWNAS1.7	PCI 32-bit integrated LAN Card (100/10Baset)
ECSDCHWNAS1.8	300-Watt Power Supply
ECSDCHWNAS1.9	Tower Chassis
ECSDCHWNAS1.10	Keyboard, Standard 101 Key
ECSDCHWNAS1.11	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared
ECSDCHWNAS1.12	48X Eight Speed Internal SCSI CD-ROM
ECSDCHWNAS1.13	Microsoft Mouse
ECSDCHWNAS1.14	1 Parallel, 2 Serial Ports
ECSDCHWNAS1.15	DIGI Serial 8-port Expansion Board; DB25M Connectors; PCI Board; Windows 2000 compatible; Qty-1; DIGI Part # 70001229

4.1.1.1.4.2 **San Diego NLSC Subcontroller Software**

4.1.1.1.4.2.1 **ECSDCSWNAS2.0**

ECSDCSWNAS2.0	Microsoft Windows 2000 Professional, W/SP4
ECSDCSWNAS2.1	Oracle 9i Client Software
ECSDCSWNAS2.2	IBM MQSeries Client Version 5.2.1

4.1.1.1.4.3 **San Diego NLSC Subcontroller Communication**

4.1.1.1.4.3.1 **ECSDCCMNAS3.0**

ECSDCCMNAS3.0	RJ45 Cable 25-ft.; Qty-1; Ethernet Hub -> NLSC/AGV Subcontroller
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4.1.1.1.5 **San Diego STACKMAN Subcontroller**

4.1.1.1.5.1 **San Diego STACKMAN Subcontroller Hardware**

4.1.1.1.5.1.1 **ECSDCHWSTM1.0**

ECSDCHWSTM1.0	STACKMAN Subcontroller; Intel 1.8 GHz Pentium 4 Processor
ECSDCHWSTM1.1	256K Cache
ECSDCHWSTM1.2	256 MB RAM (Expandable to 512 MB)
ECSDCHWSTM1.3	1.44MB 3.5" Floppy Drive
ECSDCHWSTM1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSDCHWSTM1.5	32MB ATI Rage Ultra 128 (Video Card)
ECSDCHWSTM1.6	Microsoft Mouse
ECSDCHWSTM1.7	40 GB ATA/100 Disk Drive
ECSDCHWSTM1.8	PCI 32-bit integrated LAN Card (100/10BASET)
ECSDCHWSTM1.9	300-Watt Power Supply
ECSDCHWSTM1.10	Tower Chassis
ECSDCHWSTM1.11	Keyboard, Standard 101 Key
ECSDCHWSTM1.12	2ISA, 3 PCI, 2ISA/PCI Slot Shared
ECSDCHWSTM1.14	48X Speed Internal SCSI CD-ROM
ECSDCHWSTM1.15	1 Parallel, 2 Serial Ports

4.1.1.1.5.2 **San Diego STACKMAN Subcontroller Software**

4.1.1.1.5.2.1 **ECSDCSWSTM2.0**

ECSDCSWSTM2.0	Microsoft Windows 2000 Professional Edition SP4 ECSDCSWSTM2.1 Oracle 9i Client for Windows
ECSDCSWSTM2.2	IBM MQSeries Client Version 5.2.1

**4.1.1.1.5.3 San Diego STACKMAN Subcontroller Communication**

**4.1.1.1.5.3.1 ECSDCCMSTM3.0**

ECSDCCMSTM3.0	RJ45 Cable 25-ft.; Qty-1
ECSDCCMSTM3.1	DIGI PortServer I, 8 Ports; DIGI Part #70000860
ECSDCCMSTM3.2	Cable RJ45/DB25M, 24 inches; DIGI Part #76000129

**4.1.1.1.6 San Diego STACKER/AGV Subcontroller**

**4.1.1.1.6.1 San Diego STACKER/AGV Subcontroller Hardware**

**4.1.1.1.6.1.1 ECSDCHWSTR1.0**

ECSDCHWSTR1.0	STACKER/AGV Subcontroller; Intel 1.8 GHz Pentium 4 Processor
ECSDCHWSTR1.1	256K Cache
ECSDCHWSTR1.2	256 MB RAM (Expandable to 512 MB)
ECSDCHWSTR1.3	1.44MB 3.5" Floppy Drive
ECSDCHWSTR1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSDCHWSTR1.5	32MB ATI Rage Ultra 128 (Video Card)
ECSDCHWSTR1.6	Microsoft Mouse
ECSDCHWSTR1.7	40 GB ATA/100 Disk Drive
ECSDCHWSTR1.8	PCI 32-bit integrated LAN Card (100/10BASET)
ECSDCHWSTR1.9	300-Watt Power Supply
ECSDCHWSTR1.10	Tower Chassis
ECSDCHWSTR1.11	Keyboard, Standard 101 Key
ECSDCHWSTR1.12	2ISA, 3 PCI, 2ISA/PCI Slot Shared
ECSDCHWSTR1.14	48X Speed Internal SCSI CD-ROM
ECSDCHWSTR1.15	1 Parallel, 2 Serial Ports

**4.1.1.1.6.2 San Diego STACKER/AGV Subcontroller Software**

**4.1.1.1.6.2.1 ECSDCSWSTR2.0**

ECSDCSWSTR2.0	Microsoft Windows 2000 Professional Edition SP4
ECSDCSWSTR2.1	Oracle 9i Client for Windows
ECSDCSWSTR2.2	IBM MQSeries Client Version 5.2.1

4.1.1.1.6.3    **San Diego STACKER/AGV Subcontroller Communication**

4.1.1.1.6.3.1    **ECSDCCMSTR3.0**

ECSDCCMSTR3.0	RJ45 Cable 25-ft.; Qty-1
ECSDCCMSTR3.1	DIGI PortServer TS 4, 4 Ports; DIGI Part #70001751
ECSDCCMSTR3.2	Cable RJ45/DB9M, 48 inches; DIGI Part #76000264, Qty. 2

4.1.1.2 Hill

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT HILL A.F.B.  
LAYTON, UT

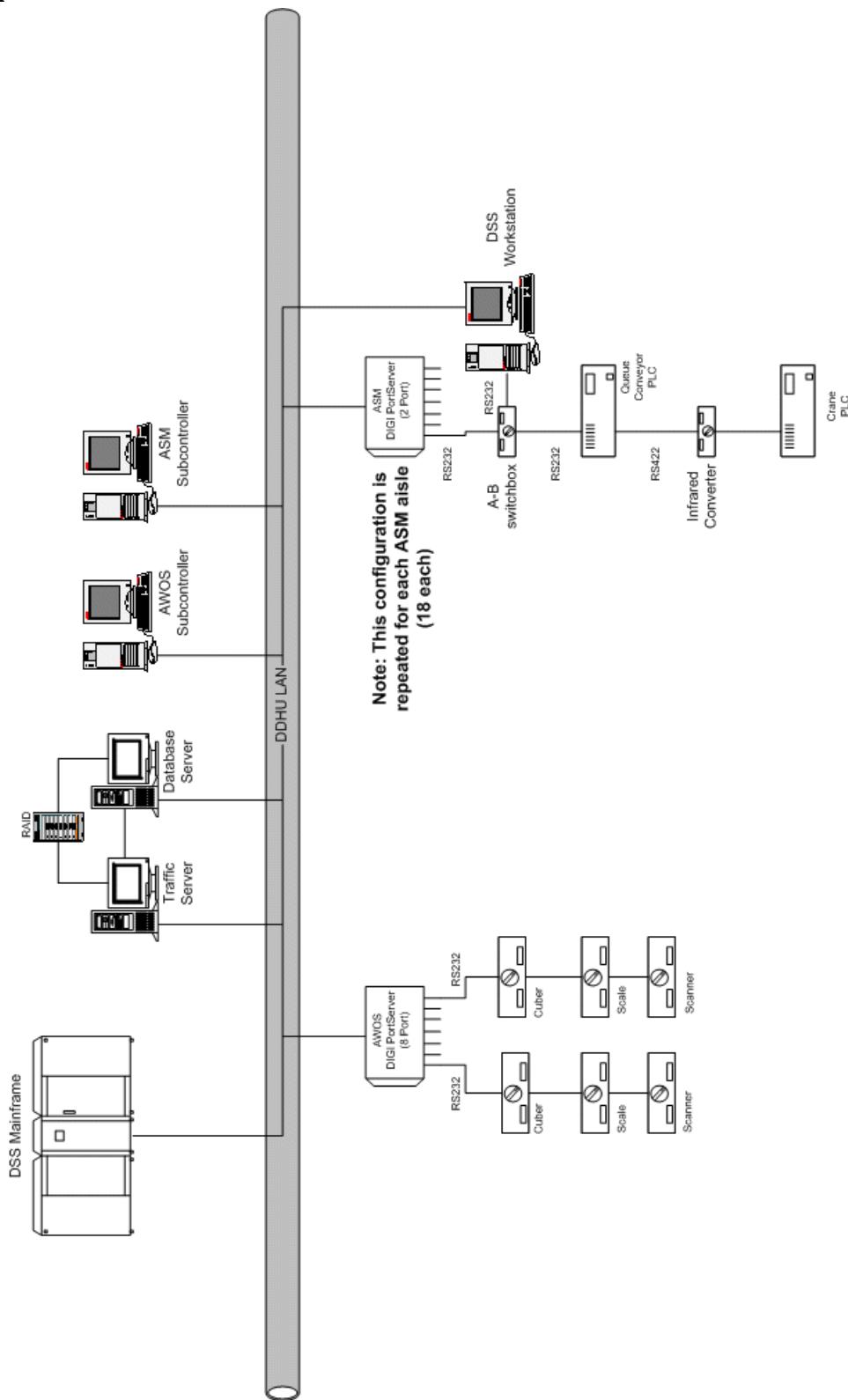


Figure 4.1.1.2-1 Hardware Configuration Defense Distribution Depot Hill

4.1.1.2.1 **Hill DSS**

4.1.1.2.1.1 **Hill DSS Hardware**

4.1.1.2.1.1.1 **ECSHUHWMFD1.0**

None

4.1.1.2.1.2 **Hill DSS Software**

4.1.1.2.1.2.1 **ECSHUSWMFD2.0**

ECSHUSWMFD2.0 MQSeries software. Will be installed with the DSS implementation.

4.1.1.2.2 **Hill Traffic Controller**

4.1.1.2.2.1 **Hill Traffic Controller Hardware**

4.1.1.2.2.1.1 **ECSHUHWTRC1.0**

ECSHUHWTRC1.0 Traffic Controller Server; Dual Intel 733 MHz Pentium III Processor

ECSHUHWTRC1.1 512K Cache

ECSHUHWTRC1.2 256 MB RAM (Expandable to 512 MB)

ECSHUHWTRC1.3 1.44MB 3.5" Floppy Drive

ECSHUHWTRC1.4 15" SVGA Color Monitor .28 Non-Interlaced

ECSHUHWTRC1.5 PCI SVGA Video Card, 2 MB RAM

ECSHUHWTRC1.6 9.1 GB SCSI Disk Drive, Quantity of 2

ECSHUHWTRC1.7 20/40 GB DLT 4000 Internal Tape Unit

ECSHUHWTRC1.8 Intel PRO 100 LAN Card, Quantity of 2

ECSHUHWTRC1.9 700 Watt Power Supply

ECSHUHWTRC1.10 Tower Chassis

ECSHUHWTRC1.11 Keyboard, Standard 104 Key

ECSHUHWTRC1.12 3 ISA, 3 PCI, 1 ISA/PCI Slot Shared

ECSHUHWTRC1.13 PERC2-Dual Channel, 64MB Controller, Quantity of 2

ECSHUHWTRC1.14 17/40X Speed Internal SCSI CD-ROM

ECSHUHWTRC1.15 Microsoft Mouse

ECSHUHWTRC1.16 1 Parallel, 2 Serial Ports

ECSHUHWTRC1.17 56K Internal PCI Modem

ECSHUHWTRC1.18 UPS (110v), 1400 Watt w/ cable and software to support Windows NT; DB9M - DB25M Adapter

**4.1.1.2.2.2 Hill Traffic Controller Software**

**4.1.1.2.2.2.1 ECSVSWTRC2.0**

ECSVSWTRC2.0	Microsoft Windows 2000 Advanced Server (CD-ROM).
ECSVSWTRC2.1	IBM MQSeries Version 5.2.1
ECSVSWTRC2.2	Oracle 9i for Windows Database
ECSVSWTRC2.3	Oracle 3.3.1 FailSafe

**4.1.1.2.2.3 Hill Traffic Controller Communication**

**4.1.1.2.2.3.1 ECSVCMTRC3.0**

ECSVCMTRC3.0	10 Base-T Ethernet Hub; Connectors (8) RJ45, (1) AUI, (1) BNC
ECSVCMTRC3.1	RJ45 Cable 10-ft.; Traffic Controller -> Ethernet Hub
ECSVCMTRC3.2	RS-232 Cable 5-ft.; DB9F - DB25M; Qty-1; Traffic Controller -> A/B Switch 2- Port
ECSVCMTRC3.3	RS-232 Cable 5-ft.; DB25F - DB25M; Qty-1; Traffic Controller DCA Board -> A/B Switch 2-Port
ECSVCMTRC3.4	Analog Line; RJ11 Cable; Phone Wall Jack -> 28.8 Internal Modem

**4.1.1.2.2.4 Hill Database Controller**

**4.1.1.2.2.4.1 Hill Database Controller Hardware**

**4.1.1.2.2.4.1.1 ECSVUHWDBA1.0**

ECSVUHWDBA1.0	Database Controller Server; Dual Intel 733 MHz Pentium III Processor
ECSVUHWDBA1.1	512K Cache
ECSVUHWDBA1.2	256 MB RAM (Expandable to 512 MB)
ECSVUHWDBA1.3	1.44MB 3.5" Floppy Drive
ECSVUHWDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSVUHWDBA1.5	PCI SVGA Video Card, 2 MB RAM
ECSVUHWDBA1.6	9.1 GB SCSI Disk Drive, Quantity of 2
ECSVUHWDBA1.7	20/40 GB DLT 4000 Internal Tape Unit
ECSVUHWDBA1.8	Intel PRO 100 LAN Card, Quantity of 2
ECSVUHWDBA1.9	700 Watt Power Supply
ECSVUHWDBA1.10	Tower Chassis
ECSVUHWDBA1.11	Keyboard, Standard 104 Key
ECSVUHWDBA1.12	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared

ECSHUHWDBA1.13	PERC2-Dual Channel, 64MB Controller, Quantity of 2
ECSHUHWDBA1.14	17/40X Speed Internal SCSI CD-ROM
ECSHUHWDBA1.15	Microsoft Mouse
ECSHUHWDBA1.16	1 Parallel, 2 Serial Ports
ECSHUHWDBA1.17	56K Internal PCI Modem
ECSHUHWDBA1.18	UPS (110v), 1400 Watt w/ cable and software to support Windows NT; DB9M - DB25M Adapter

#### 4.1.1.2.2.5 **Hill Database Controller Software**

##### 4.1.1.2.2.5.1 **ECSHUSWDBA2.0**

ECSHUSWDBA2.0	Microsoft Windows 2000 Advanced Server (CD-ROM).
ECSHUSWDBA2.1	IBM MQSeries Version 5.2.1
ECSHUSWDBA2.2	Oracle 9i for Windows Database
ECSHUSWDBA2.3	Oracle 3.3.1 FailSafe

#### 4.1.1.2.2.6 **Hill Database Controller Communications**

##### 4.1.1.2.2.6.1 **ECSHUCMDBA3.0**

ECSHUCMDBA3.0	10 Base-T Ethernet Hub; Connectors (8) RJ45, (1) AUI, (1) BNC
ECSHUCMDBA3.1	RJ45 Cable 10-ft.; Traffic Controller -> Ethernet Hub
ECSHUCMDBA3.2	RS-232 Cable 5-ft.; DB9F - DB25M; Qty-1; Traffic Controller -> A/B Switch 2- Port
ECSHUCMDBA3.3	RS-232 Cable 5-ft.; DB25F - DB25M; Qty- 1; Traffic Controller DCA Board -> A/B Switch 2-Port
ECSHUCMDBA3.4	Analog Line; RJ11 Cable; Phone Wall Jack -> 28.8 Internal Modem

#### 4.1.1.2.4 **Hill Stacker Subcontroller**

##### 4.1.1.2.4.1 **Hill Stacker Subcontroller Hardware**

##### 4.1.1.2.4.1.1 **ECSHUHWSTK1.0**

ECSHUHWSTK1.0	Stacker Subcontroller; Intel 1.7 GHz Pentium 4
ECSHUHWSTK1.1	256K Cache
ECSHUHWSTK1.2	256 MB RAM (Expandable to 512 MB)
ECSHUHWSTK1.3	1.44MB 3.5" Floppy Drive

ECSHUHWSTK1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSHUHWSTK1.5	VGA Video Card, 32 MB RAM
ECSHUHWSTK1.6	18.0 GB SCSI Disk Drive
ECSHUHWSTK1.7	Integrated 3Com 10/100 mbps NIC
ECSHUHWSTK1.8	230 Watt Power Supply
ECSHUHWSTK1.9	Tower Chassis
ECSHUHWSTK1.10	Keyboard, Standard 101 Key
ECSHUHWSTK1.11	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared
ECSHUHWSTK1.12	20/48X Speed Internal IDE CD-ROM
ECSHUHWSTK1.13	Microsoft Mouse
ECSHUHWSTK1.14	1 Parallel, 2 Serial Ports

#### 4.1.1.2.4.2 **Hill Stacker Subcontroller Software**

##### 4.1.1.2.4.2.1 **ECSHUSWSTK2.0**

ECSHUSWSTK2.0	Microsoft Windows 2000 Professional, SP2 (CD-ROM).
ECSHUSWSTK2.1	DIGI RealPort software.
ECSHUSWSTK2.2	IBM MQSeries Client Software
ECSHUSWSTK2.3	Oracle 9i Client Software

#### 4.1.1.2.4.3 **Hill Stacker Subcontroller Communication**

##### 4.1.1.2.4.3.1 **ECSHUCMSTK3.0**

ECSHUCMSTK3.0	RJ45 Cable 10-ft.; Ethernet Hub -> Stacker Subcontroller
ECSHUCMSTK3.1	A/B 1-Port Switch; DB25F Connectors; Qty 18
ECSHUCMSTK3.2	DIGI PortServer TS 2; 2-Port; Qty-18; Part # 700001750
ECSHUCMSTK3.3	RS-232 Cable 5-ft.; DB25M - DB25F; Qty-36; DIGI -> A/B 2-Port Switch -> Queue PLC

#### 4.1.1.2.4.4 **Hill AWOS Subcontroller**

##### 4.1.1.2.4.4.1 **Hill AWOS Subcontroller Hardware**

###### 4.1.1.2.4.4.1.1 **ECSHUHWAWS1.0**

ECSHUHWAWS1.0	AWOS Subcontroller Server; 733 MHz Pentium III Processor
ECSHUHWAWS1.1	256K Cache
ECSHUHWAWS1.2	256 MB RAM (Expandable to 512 MB)

ECSHUHWAWS1.3	1.44MB 3.5" Floppy Drive
ECSHUHWAWS1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSHUHWAWS1.5	PCI SVGA Video Card, 2 MB RAM
ECSHUHWAWS1.6	15 GB SCSI Disk Drive
ECSHUHWAWS1.7	10/100 Internal NIC
ECSHUHWAWS1.8	300 Watt Power Supply
ECSHUHWAWS1.9	Tower Chassis
ECSHUHWAWS1.10	Keyboard, Standard 104 Key
ECSHUHWAWS1.11	20/48X Speed Internal SCSI CD-ROM
ECSHUHWAWS1.12	Microsoft Mouse
ECSHUHWAWS1.13	1 Parallel, 2 Serial Ports

**4.1.1.2.4.5 Hill AWOS Subcontroller Software**

**4.1.1.2.4.5.1 CSHUSWAWS2.0**

ECSHUSWAWS2.0	Microsoft Windows NT Server 4.0 (CD-ROM).
ECSHUSWAWS2.1	DIGI RealPort software.
ECSHUSWAWS2.2	IBM MQSeries Client Software
ECSHUSWAWS2.3	Oracle 9i Client Software

**4.1.1.2.4.6 Hill AWOS Subcontroller Communications**

**4.1.1.2.4.6.1 ESHUCMAWS3.0**

ECSHUCMAWS3.0	RJ45 Cable 10-ft.; Ethernet Hub -> AWOS Subcontroller
ECSHUCMAWS3.1	DIGI PortServer I (8 port); DIGI Part #70000860
ECSHUCMAWS3.2	DIGI Cable RJ45/DB25-male 24"; DIGI Part #76000129

4.1.1.3      **Jacksonville**

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT JACKSONVILLE  
JACKSONVILLE, FL

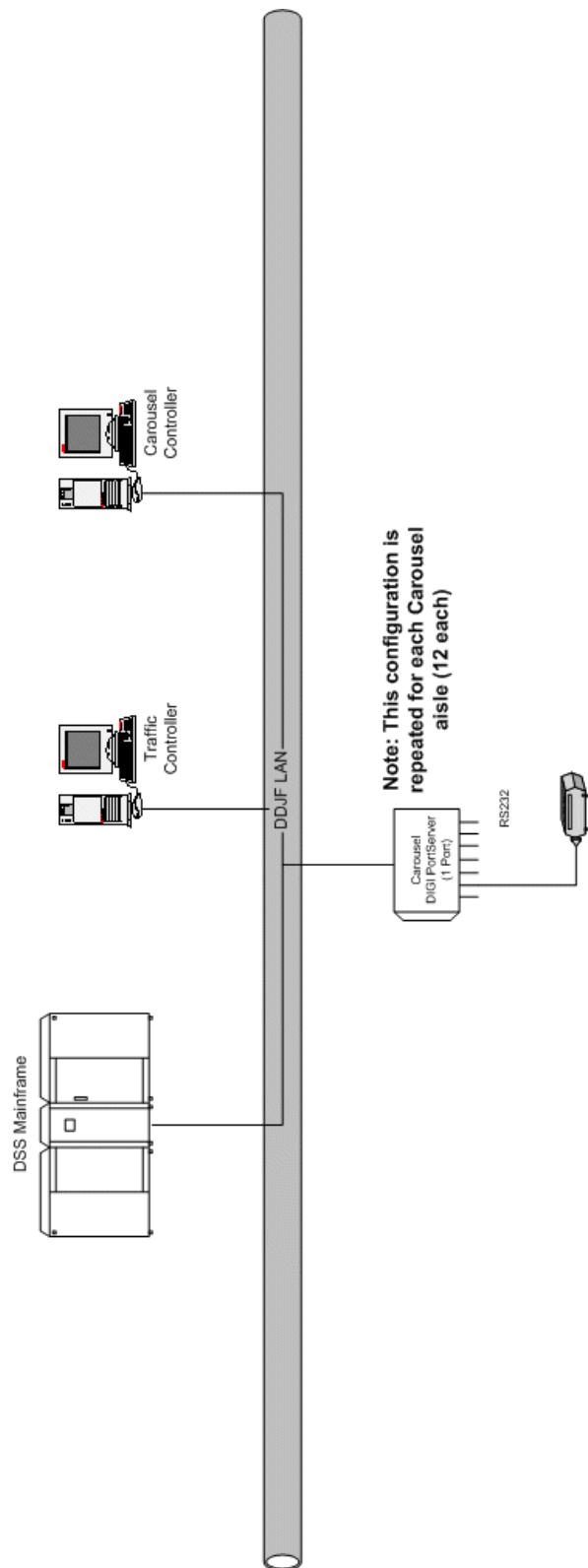


Figure 4.1.1.3-1 Hardware Configuration Defense Distribution Depot Jacksonville

4.1.1.3.1     **Jacksonville DSS**

4.1.1.3.1.1   **Jacksonville DSS Hardware**

4.1.1.3.1.1.1   **ECSJFHWMFD1.0**

None

4.1.1.3.1.2   **Jacksonville DSS Software**

4.1.1.3.1.2.1   **ECSJFSWMFD2.0**

ECSJFSWMFD2.0                          IBM MQSeries software. Will be installed with the DSS implementation.

4.1.1.3.2     **Jacksonville Traffic Controller**

4.1.1.3.2.1   **Jacksonville Traffic Controller Hardware**

4.1.1.3.2.1.1   **ECSJFHWTRC1.0**

ECSJFHWTRC1.0	Traffic Controller; 2.8 GHz Intel Pentium 4 Processor
ECSJFHWTRC1.1	512K Cache
ECSJFHWTRC1.2	1.0 GB RAM
ECSJFHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSJFHWTRC1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSJFHWTRC1.5	32 MB, ATI, Radeon 7500
ECSJFHWTRC1.6	80 GB EIDE Disk Drive
ECSJFHWTRC1.7	10/100/1000 Intel Gigabit; Integrated
ECSJFHWTRC1.8	300 Watt Power Supply
ECSJFHWTRC1.9	Tower Chassis
ECSJFHWTRC1.10	Keyboard, Standard 101 Key
ECSJFHWTRC1.11	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSJFHWTRC1.12	48X Eight Speed Internal CD-ROM
ECSJFHWTRC1.13	Microsoft Mouse
ECSJFHWTRC1.14	1 Parallel, 2 Serial Ports
ECSJFHWTRC1.15	UPS (110v), 1400-Watt w/ cable and software to support Windows NT; DB9M - DB25M Adapter

4.1.1.3.2.2 **Jacksonville Traffic Controller Software**

4.1.1.3.2.2.1 **ECSJFSWTRC2.0**

ECSJFSWTRC2.0	Microsoft Windows 2000 Professional Edition, SP2 (CD-ROM).
ECSJFSWTRC2.1	IBM MQSeries, Version 5.2.1. (CD-ROM)

4.1.1.3.2.3 **Jacksonville Traffic Controller Communication**

4.1.1.3.2.3.1 **ECSJFCMTRC3.0**

ECSJFCMTRC3.0	RJ45 Cable 10-ft.; Traffic Controller -> Depot LAN
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4.1.1.3.3 **Jacksonville Carousel Subcontroller**

4.1.1.3.3.1 **Jacksonville Carousel Subcontroller Hardware**

4.1.1.3.3.1.1 **ECSJFHWCAR1.0**

ECSJFHWCAR1.0	Carousel Subcontroller; 2.8 GHz Intel Pentium 4 Processor
ECSJFHWCAR1.1	512K Cache
ECSJFHWCAR1.2	1.0 GB RAM)
ECSJFHWCAR1.3	1.44MB 3.5" Floppy Drive
ECSJFHWCAR1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSJFHWCAR1.5	32 MB, ATI, Radeon 7500
ECSJFHWCAR1.6	80 GB EIDE Disk Drive
ECSJFHWCAR1.7	10/100/1000 Intel Gigabit; Integrated
ECSJFHWCAR1.8	300 Watt Power Supply
ECSJFHWCAR1.9	Tower Chassis
ECSJFHWCAR1.10	Keyboard, Standard 101 Key
ECSJFHWCAR1.11	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSJFHWCAR1.12	48X Eight Speed Internal SCSI CD-ROM
ECSJFHWCAR1.13	Microsoft Mouse
ECSJFHWCAR1.14	1 Parallel, 2 Serial Ports

4.1.1.3.3.2 **Jacksonville Carousel Subcontroller Software**

4.1.1.3.3.2.1 **ECSJFSWCAR2.0**

ECSJFSWCAR2.0	Microsoft Windows 2000 Professional Edition, SP2 (CD-ROM).
ECSJFSWCAR2.1	IBM MQSeries, Version 5.2.1. (CD-ROM)

4.1.1.3.3.3 Jacksonville Carousel Subcontroller Communication

4.1.1.3.3.3.1 **ECSJFCMCAR3.0**

ECSJFCMCAR3.0	RJ45 Cable 10-ft.; Depot LAN -> Carousel Subcontroller
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4.1.1.4

Norfolk

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT NORFOLK  
NORFOLK, VA

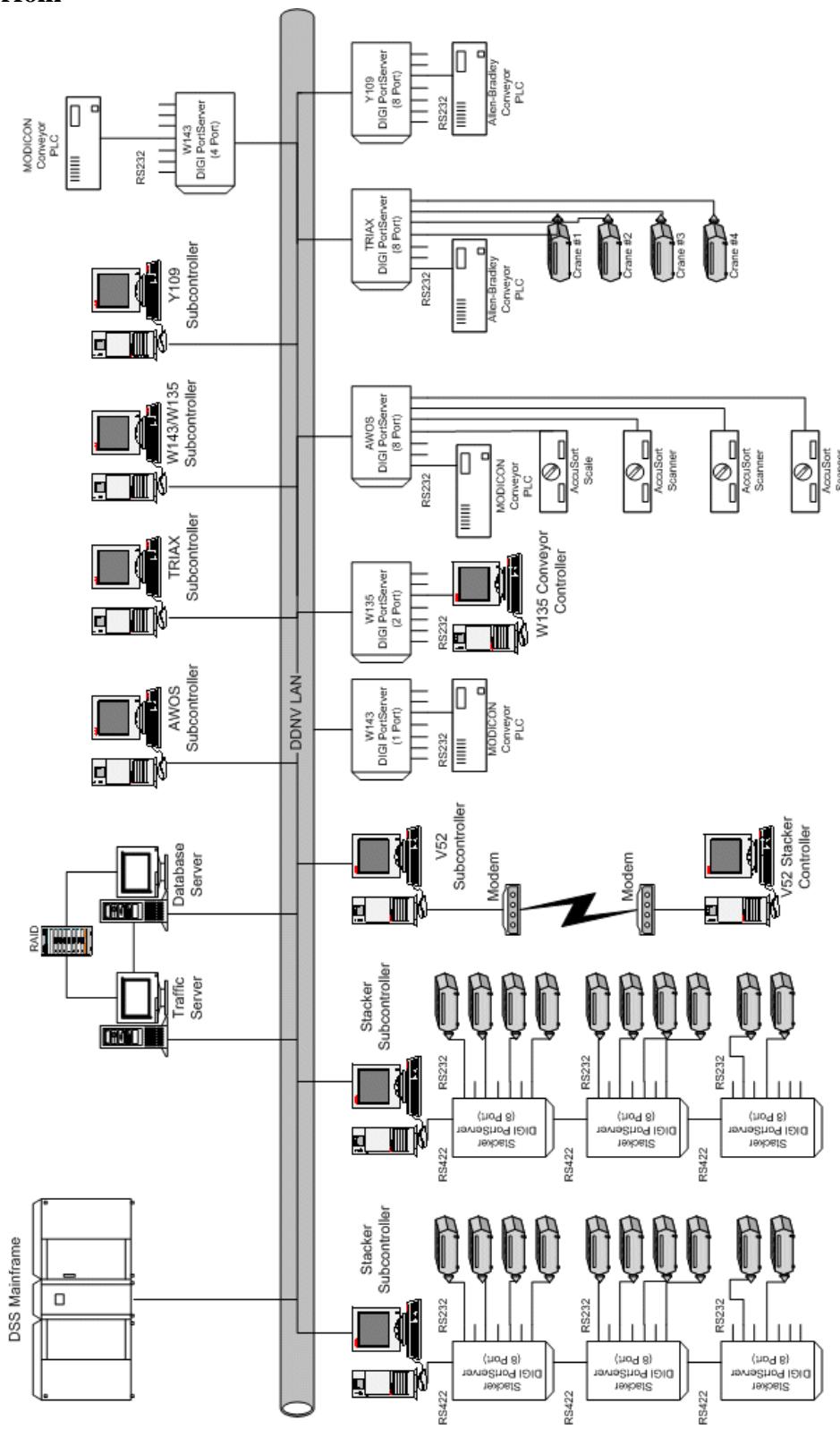


Figure 4.1.1.4-1 Hardware Configuration Defense Distribution Depot Norfolk

4.1.1.4.1     **Norfolk DSS**

4.1.1.4.1.1   **Norfolk DSS Software**

4.1.1.4.1.1.1   **ECSNVSWMFD2.**

ECSNVSWMFD2.0                           IBM MQSeries software will be installed with the DSS implementation.

4.1.1.4.2     **Norfolk Traffic Controller**

4.1.1.4.2.1   **Norfolk Traffic Controller Hardware**

4.1.1.4.2.1.1   **ECSNVHWTRC1.0**

ECSNVHWTRC1.0	Traffic Controller Server; Intel 2.0 GHz Xeon Processor
ECSNVHWTRC1.1	512K Cache
ECSNVHWTRC1.2	512 MB RAM (Expandable to 1 GB)
ECSNVHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSNVHWTRC1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSNVHWTRC1.5	Three 18.0 GB SCSI Disk Drive
ECSNVHWTRC1.6	Intel Dual Port 100 NIC (Additional NIC)
ECSNVHWTRC1.7	700 Watt Power Supply
ECSNVHWTRC1.8	Tower Chassis
ECSNVHWTRC1.9	Keyboard, Standard 101 Key
ECSNVHWTRC1.10	PERC4/DI, 128MB RAID Controller, Embedded RAID (Primary Controller)
ECSNCHWTRC1.11	PERC3-DC, 128MB RAID Controller (Secondary Controller)
ECSNVHWTRC1.12	24X, IDE CD-ROM
ECSNVHWTRC1.13	Microsoft Mouse
ECSNVHWTRC1.14	1 Parallel, 2 Serial Ports
ECSNVHWTRC1.15	Dell PowerVault 221S disk system w/ (4) 18GB hard drives & redundant power supply

4.1.1.4.2.2   **Norfolk Traffic Controller Software**

4.1.1.4.2.2.1   **ECSNVSWTRC2.0**

ECSNVSWTRC2.0	Microsoft Windows 2000 Advanced Server w/SP4
ECSNVSWTRC2.1	IBM MQSeries Version 5.2.1
ECSNVSWTRC2.2	Oracle 9i for Windows Database
ECSNVSWTRC2.3	Oracle 9i FailSafe Version 3.3.2

4.1.1.4.2.3 **Norfolk Traffic Controller Communication**

4.1.1.4.2.3.1 **ECSNVCMTRC3.0**

ECSNVCMTRC3.0                            RJ45 Cable 25-ft.; Qty-1

4.1.1.4.3 **Norfolk Data Base Subcontroller**

4.1.1.4.3.1 **Norfolk Data Base Subcontroller Hardware**

4.1.1.4.3.1.1 **ECSNVHDBA1.0**

ECSNVHDBA1.0	Data Base Subcontroller; Intel 2.0 GHz Xeon Processor
ECSNVHDBA1.1	512K Cache
ECSNVHDBA1.2	512 MB RAM (Expandable to 1 GB)
ECSNVHDBA1.3	1.44MB 3.5" Floppy Drive
ECSNVHDBA1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSNVHDBA1.5	18.0 GB SCSI Disk Drive; Qty 3
ECSNVHDBA1.6	Intel Dual Port 100 NIC (Additional NIC)
ECSNVHDBA1.7	700 Watt Power Supply
ECSNVHDBA1.8	Tower Chassis
ECSNVHDBA1.9	Keyboard, Standard 101 Key
ECSNVHDBA1.10	PERC4/DI, 128MB RAID Controller, Embedded RAID (Primary Controller)
ECSNCHWDBA1.11	PERC3-DC, 128MB RAID Controller (Secondary Controller)
ECSNVHDBA1.12	24X, IDE CD-ROM
ECSNVHDBA1.13	1 Parallel, 2 Serial Ports
ECSNVHDBA1.14	Microsoft Mouse

4.1.1.4.3.2 **Norfolk Data Base Subcontroller Software**

4.1.1.4.3.2.1 **ECSNVSWDBA2.0**

ECSNVCMDBA2.0	Microsoft Windows 2000 Advanced Server w/SP4
ECSNVCMDBA2.1	IBM MQSeries Version 5.2.1
ECSNVCMDBA2.2	Oracle 9i for Windows Database
ECSNVCMDBA2.3	Oracle 9i FailSafe Version 3.3.2

4.1.1.4.3.3 **Norfolk Data Base Subcontroller Communication**

4.1.1.4.3.3.1 **ECSNVCMDBA3.0**

ECSNVCMDBA3.0                    RJ45 Cable 75-ft.; Qty. 1

4.1.1.4.4 **Norfolk TRIAX Subcontroller**

4.1.1.4.4.1 **Norfolk TRIAX Subcontroller Hardware**

4.1.1.4.4.1.1 **ECSNVHWTRX1.0**

ECSNVHWTRX1.0	TRIAX Subcontroller; Intel 733MHz Pentium III Processor
ECSNVHWTRX1.1	256K Full-Speed Cache
ECSNVHWTRX1.2	256 MB RAM (Expandable to 512 MB)
ECSNVHWTRX1.3	1.44MB 3.5" Floppy Drive
ECSNVHWTRX1.4	PCI SVGA Video Card 4 MB RAM
ECSNVHWTRX1.5	15.0 GB EIDE Hard Disk Drive
ECSNVHWTRX1.6	PCI 32-bit LAN Card (100/10BASET)
ECSNVHWTRX1.7	300-Watt Power Supply
ECSNVHWTRX1.8	Tower Chassis
ECSNVHWTRX1.9	Keyboard, Standard 101 Key
ECSNVHWTRX1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSNVHWTRX1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSNVHWTRX1.12	10/24X Six Speed Internal SCSI CD-ROM
ECSNVHWTRX1.13	Microsoft Mouse
ECSNVHWTRX1.14	1 Parallel, 2 Serial Ports
ECSNVHWTRX1.16	15" SVGA Color Monitor .28 Non-Interlaced

4.1.1.4.4.2 **Norfolk TRIAX Subcontroller Software**

4.1.1.4.4.2.1 **ECSNVSWTRX2.0**

ECSNVSWTRX2.0	Microsoft Windows 2000 Professional w/SP4
ECSNVSWTRX2.1	Oracle 9i Client Software
ECSNVSWTRX2.2	IBM MQSeries Client Version 5.2.1

4.1.1.4.4.3 **Norfolk TRIAX Subcontroller Communication**

4.1.1.4.4.3.1 **ECSNVCMTRX3.0**

ECSNVCMTRX3.0	RJ45 Cable 25-ft.; Ethernet Hub -> TRIAX Subcontroller
ECSNVCMTRX3.1	DIGI PortServer I, 8 Port; Qty 1; DIGI Part # 76000860
ECSNVCMTRX3.2	DIGI Cable RJ45 to Male DB25; DIGI Part # 76000129; Qty 4

4.1.1.4.5 **Norfolk V-52 Stacker Subcontroller**

4.1.1.4.5.1 **Norfolk V-52 Stacker Subcontroller Hardware**

4.1.1.4.5.1.1 **ECSNVHWV521.0**

ECSNVHWV521.0	V-52 Stacker Subcontroller; Intel 2.0 GHz Pentium 4 processor
ECSNVHWV521.1	512K Cache
ECSNVHWV521.2	512 MB RAM (Expandable to 1 GB)
ECSNVHWV521.3	1.44MB 3.5" Floppy Drive
ECSNVHWV521.4	32MB ATI Radeon 7500 Video Card
ECSNVHWV521.5	80 GB EIDE 7200 RPM Hard Drive
ECSNVHWV521.6	Integrated Intel 10/100/1000 NIC
ECSNVHWV521.7	300-Watt Power Supply
ECSNVHWV521.8	Tower Chassis
ECSNVHWV521.9	Keyboard, Standard 101 Key
ECSNVHWV521.10	48X Speed Internal CD-ROM
ECSNVHWV521.11	Microsoft Mouse
ECSNVHWV521.12	1 Parallel, 2 Serial Ports
ECSNVHWV521.13	Digi Serial 4-Port Expansion Board; DB25M Connectors; Windows NT Compatible; Qty-1; DIGI Part # PC/4E
ECSNVHWV521.14	17" SVGA Color Monitor .28 Non-Interlaced

4.1.1.4.5.2 **Norfolk V-52 Stacker Subcontroller Software**

4.1.1.4.5.2.1 **ECSNVSWV522.0**

ECSNVSWV522.0	Microsoft Windows 2000 Professional w/SP4
ECSNVSWV522.1	Oracle 9i Client Software
ECSNCSWV522.2	IBM MQSeries Client Version 5.2.1

4.1.1.4.5.3 **Norfolk V-52 Stacker Subcontroller Communication**

4.1.1.4.5.3.1 **ECSNVCMV523.0**

ECSNVCMV523.0	RJ45 Cable 25-ft
ECSNVCMV523.1	RS-232 Cable 10 ft.; DB25F - DB25M; Qty-1; Digi Board ->Modem in Computer Room Bldg. 143 6th Floor
ECSNVCMV523.2	Modem in Computer Room Bldg. 143 6th Floor for Bldg. V52; Qty-1; BLACKBOX Part # ME800A
ECSNVCMV523.3	Twisted Pair; Qty-1; Modem in Computer Room Bldg. 143 6th Floor -> Modem in Bldg. V52
ECSNVCMV523.4	Modem in Bldg. V52 for Stacker Controller; Qty-1; BLACKBOX Part # ME800A
ECSNVCMV523.5	RS-232 Cable 5 ft.; DB25M - DB?; Qty-1; Modem in Bldg. V52 -> Stacker Controller

4.1.1.4.6 **Norfolk Stacker Subcontroller**

4.1.1.4.6.1 **Norfolk Stacker Subcontroller Hardware**

4.1.1.4.6.1.1 **ECSNVHWSTK1.0**

ECSNVHWSTK1.0	Stacker Subcontroller; Intel 2.4 GHz Pentium 4 processor
ECSNVHWSTK1.1	512K Cache
ECSNVHWSTK1.2	1.0 GB RAM
ECSNVHWSTK1.3	1.44MB 3.5" Floppy Drive
ECSNVHWSTK1.4	32MB ATI Radeon 7500 Video Card
ECSNVHWSTK1.5	80 GB EIDE 7200 RPM Hard Drive
ECSNVHWSTK1.6	Integrated Intel 10/100/1000 NIC
ECSNVHWSTK1.7	300-Watt Power Supply
ECSNVHWSTK1.8	Tower Chassis
ECSNVHWSTK1.9	Keyboard, Standard 101 Key
ECSNVHWSTK1.12	48X Speed Internal CD-ROM
ECSNVHWSTK1.13	Microsoft Mouse
ECSNVHWSTK1.14	1 Parallel, 2 Serial Ports
ECSNVHWSTK1.15	DIGI Serial 8-Port Expansion Board; PCI Board; DB25M Connectors; DIGI Part # 70001229
ECSNVHWSTK1.16	17" SVGA Color Monitor .28 Non-interlaced

**4.1.1.4.6.2 Norfolk Stack Subcontroller Software**

**4.1.1.4.6.2.1 ECSNVSWSK2.0**

ECSNVSWSK2.0	Microsoft Windows 2000 Professional w/SP4
ECSNVSWSK2.1	Oracle 9i Client Software
ECSNVSWSK2.2	IBM MQSeries Client Version 5.2.1

**4.1.1.4.6.3 Norfolk Stack Subcontroller Communication**

**4.1.1.4.6.3.1 ECSNVCMSK3.0**

ECSNVCMSK3.0	RJ45 Cable 25-ft.; Qty 2
ECSNVCMSK3.1	DIGI Fiber Optic connection for DIGI C/X System; Qty 3; DIGI Part # 76000071
ECSNVCMSK3.2	Fiber Optic Cable; Qty 3; Site Installed
ECSNVCMSK3.3	DIGI C/CON-8 DB25; Qty 6; DIGI Part # 76000218
ECSNVCMSK3.4	HD15M Subminiature Connectors; 2 Spares; Qty 8; BLACKBOX Quote # 606612 Part # FA-1311-C
ECSNVCMSK3.5	RS-422 Cable; Between C/CON concentrators; Qty 6; Site Installed
ECSNVCMSK3.6	HD15F Subminiature Connectors; 2 Spares; Qty 8; BLACKBOX Quote # 606612 Part # FA-1311-D
ECSNVCMSK3.7	RS-232 Cable 50-ft.; DB25F - DB25M; Shielded Null Modem; Qty-18; BLACKBOX Part # EYN251-0050
ECSNVCMSK3.8	RS-232 Cable 75-ft.; DB25F - DB25M; Shielded Null Modem; Qty-12; BLACKBOX Part # EYN251-0075

**4.1.1.4.7 Norfolk AWOS Subcontroller**

**4.1.1.4.7.1 Norfolk AWOS Subcontroller Hardware**

**4.1.1.4.7.1.1 ECSNVHWAWS1.0**

ECSNVHWAWS1.0	AWOS Subcontroller; Intel 450MHz Pentium III Processor
ECSNVHWAWS1.1	512K Cache
ECSNVHWAWS1.2	256 MB RAM (Expandable to 512 MB)
ECSNVHWAWS1.3	1.44MB 3.5" Floppy Drive
ECSNVHWAWS1.4	PCI SVGA Video Card, 2 MB RAM
ECSNVHWAWS1.5	4.5 GB SCSI Disk Drive

ECSNVHWAWS1.6	PCI 32-bit LAN Card (100/10BASET)
ECSNVHWAWS1.7	300-Watt Power Supply
ECSNVHWAWS1.8	Tower Chassis
ECSNVHWAWS1.9	Keyboard, Standard 101 Key
ECSNVHWAWS1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSNVHWAWS1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSNVHWAWS1.12	8X Eight Speed Internal SCSI CD-ROM
ECSNVHWAWS1.13	Microsoft Mouse
ECSNVHWAWS1.14	1 Parallel, 2 Serial Ports
ECSNVHWAWS1.15	15" SVGA Color Monitor .28 Non-Interlaced

#### 4.1.1.4.7.2 Norfolk AWOS Subcontroller Software

##### 4.1.1.4.7.2.1 ECSNVSWAWS2.0

ECSNVSWAWS2.0	Microsoft Windows 2000 Professional w/SP4
ECSNVSWAWS2.1	Oracle 9i Client Software
ECSNVSWAWS2.2	IBM MQSeries Client Version 5.2.1

#### 4.1.1.4.7.3 Norfolk AWOS Subcontroller Communication

##### 4.1.1.4.7.3.1 ECSNVCMAWS3.0

ECSNVCMAWS3.0	RJ45 Cable 25-ft.; Ethernet Hub -> AWOS Subcontroller
ECSNVCMAWS3.1	DIGI PortServer I (8 port); Qty 1; DIGI Part # 70000860
ECSNVCMAWS3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 5; DIGI Part # 76000129

#### 4.1.1.4.8 Norfolk W143 Conveyor Subcontroller

##### 4.1.1.4.8.1 Norfolk W143 Conveyor Subcontroller Hardware

##### 4.1.1.4.8.1.1 ECSNVHWCNV1.0

ECSNVHWCNV1.0	Conveyor Subcontroller; Intel 1.2GHz Pentium 4 Processor
ECSNVHWCNV1.1	256K Full-Speed Cache
ECSNVHWCNV1.2	256 MB RAM (Expandable to 512 MB)
ECSNVHWCNV1.3	1.44MB 3.5" Floppy Drive
ECSNVHWCNV1.4	PCI SVGA Video Card 2 MB RAM
ECSNVHWCNV1.5	10.0 GB EIDE Hard Disk Drive
ECSNVHWCNV1.6	PCI 32-bit LAN Card (100/10BASET)
ECSNVHWCNV1.7	300-Watt Power Supply

ECSNVHWCNV1.8	Tower Chassis
ECSNVHWCNV1.9	Keyboard, Standard 101 Key
ECSNVHWCNV1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSNVHWCNV1.11	20/48X Speed Internal SCSI CD-ROM
ECSNVHWCNV1.12	Microsoft Mouse
ECSNVHWCNV1.13	1 Parallel, 2 Serial Ports
ECSNVHWCNV1.14	17" SVGA Color Monitor .28 Non-Interlaced

#### 4.1.1.4.8.2 **Norfolk W143 Conveyor Subcontroller Software**

##### 4.1.1.4.8.2.1 **ECSNVSWCNV2.0**

ECSNVSWCNV2.0	Microsoft Windows 2000 Professional w/SP4
ECSNVSWCNV2.1	Oracle 9i Client Software
ECSNCSWCNV2.2	IBM MQSeries Client Version 5.2.1

#### 4.1.1.4.8.3 **Norfolk W143 Conveyor Subcontroller Communication**

##### 4.1.1.4.8.3.1 **ECSNVCMCNV3.0**

ECSNVCMCNV3.0	RJ45 Cable 25-ft.; Ethernet Hub -> Conveyor Subcontroller
ECSNVCMCNV3.1	DIGI One IA RealPort (1 Port); Qty 1; DIGI Part #70001777
ECSNVCMCNV3.2	DIGI Cable; Qty 1; RJ45/DB9 Male-24"; DIGI Part #76000239

#### 4.1.1.4.9 **Norfolk Y109 Freight Subcontroller**

##### 4.1.1.4.9.1 **Norfolk Y109 Freight Subcontroller Hardware**

###### 4.1.1.4.9.1.1 **ECSNVHWFRT1.0**

ECSNVHWFRT1.0	Freight Subcontroller; Intel 1.2 GHz Pentium 4 Processor
ECSNVHWFRT1.1	256K Full-Speed Cache
ECSNVHWFRT1.2	256 MB RAM (Expandable to 512 MB)
ECSNVHWFRT1.3	1.44MB 3.5" Floppy Drive
ECSNVHWFRT1.4	PCI SVGA Video Card 2 MB RAM
ECSNVHWFRT1.5	10.0 GB EIDE Hard Disk Drive
ECSNVHWFRT1.6	PCI 32-bit LAN Card (100/10BASET)
ECSNVHWFRT1.7	300-Watt Power Supply
ECSNVHWFRT1.8	Tower Chassis
ECSNVHWFRT1.9	Keyboard, Standard 101 Key
ECSNVHWFRT1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared

ECSNVHWFRT1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSNVHWFRT1.12	20/48X Speed Internal SCSI CD-ROM
ECSNVHWFRT1.13	Microsoft Mouse
ECSNVHWFRT1.14	1 Parallel, 2 Serial Ports
ECSNVHWFRT1.16	17" SVGA Color Monitor .28 Non-Interlaced

**4.1.1.4.9.2 Norfolk Y109 Freight Subcontroller Software**

**4.1.1.4.9.2.1 ECSNVSWFRT2.0**

ECSNVSWFRT2.0	Microsoft Windows 2000 Professional w/SP4
ECSNVSWFRT2.1	Oracle 9i Client Software
ECSNVSWFRT2.2	IBM MQSeries Client Version 5.2.1

**4.1.1.4.9.3 Norfolk Y109 Freight Subcontroller Communication**

**4.1.1.4.9.3.1 ECSNVCMFRT3.0**

ECSNVCMFRT3.0	RJ45 Cable 25-ft.; Ethernet Hub -> Freight Subcontroller
ECSNVCMFRT3.1	DIGI PortServer I, 8 Port; Qty 1; DIGI Part # 76000860
ECSNVCMFRT3.2	DIGI Cable RJ45 to Male DB25; DIGI Part # 76000129; Qty 1

4.1.1.5

**Puget Sound**

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT PUGET SOUND  
PUGET SOUND, WA

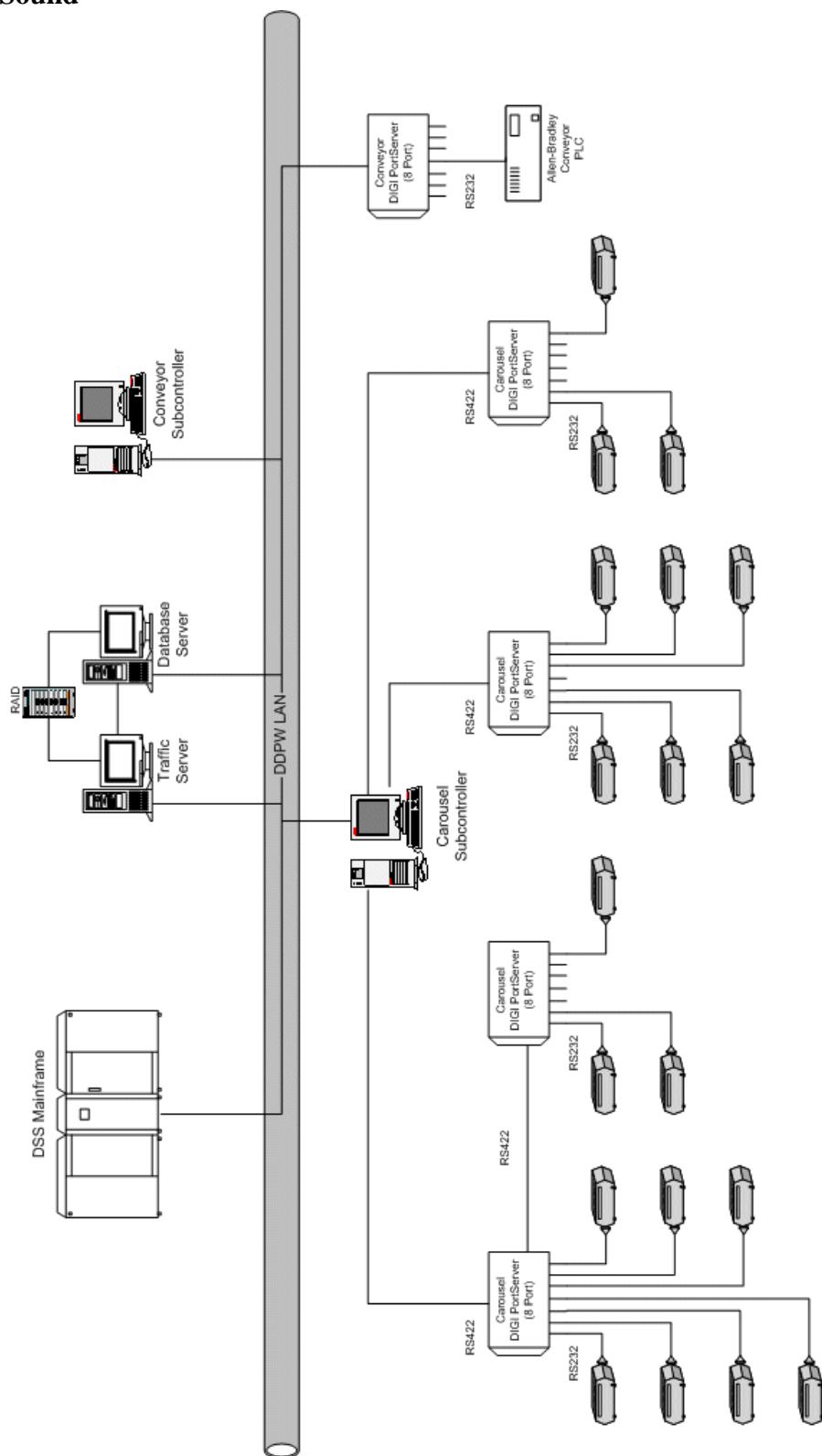


Figure 4.1.1.5-1 Hardware Configuration Defense Distribution Depot Puget Sound

4.1.1.5.1 **Puget Sound DSS**

4.1.1.5.1.1 **Puget Sound DSS Software**

4.1.1.5.1.1.1 **ECSPWSWMFD1.0**

ECSPWSWMFD1.0 IBM MQSeries. Will be installed with the DSS implementation.

4.1.1.5.2 **Puget Sound Traffic Controller**

4.1.1.5.2.1 **Puget Sound Traffic Controller Hardware**

4.1.1.5.2.1.1 **ECSPWHWTRC1.0**

ECSPWHWTRC1.0 Traffic Controller Server; w/dual Intel 933 MHz Pentium III Processor  
ECSPWHWTRC1.1 256K Cache  
ECSPWHWTRC1.2 256 MB RAM (Expandable to 512 MB)  
ECSPWHWTRC1.3 1.44MB 3.5" Floppy Drive  
ECSPWHWTRC1.4 15" SVGA Color Monitor .28 Non-Interlaced  
ECSPWHWTRC1.5 PCI SVGA Video Card, 2 MB RAM  
ECSPWHWTRC1.6 9.0 GB SCSI Disk Drive; Qty 3  
ECSPWHWTRC1.7 PV100T, DDS4, 10/40G, Internal Tape Unit  
ECSPWHWTRC1.8 Intel PRO 100+ NIC (100 BASET)  
ECSPWHWTRC1.9 700-Watt Power Supply  
ECSPWHWTRC1.10 Tower Chassis  
ECSPWHWTRC1.11 Keyboard, Standard 101 Key  
ECSPWHWTRC1.12 4 PCI, 2 ISA/PCI Slot Shared  
ECSPWHWTRC1.13 PCI 32-bit SCSI Caching Controller w/  
4MB RAM Cache  
ECSPWHWTRC1.14 24X Speed Internal IDE CD-ROM  
ECSPWHWTRC1.15 Microsoft Mouse  
ECSPWHWTRC1.16 1 Parallel, 2 Serial Ports  
ECSPWHWTRC1.17 V.34 33.6 Internal Modem ISA  
ECSPWHWTRC1.18 UPS (110v), 1400 Watt w/ cable and  
software to support Windows NT; DB9M -  
DB25M Adapter  
ECSPWHWTRC1.19 1X6 Hot Pluggable Backplane  
ECSPWHWTRC1.20 PERC3/DC, 128MB RAID Controller, Qty 2  
ECSPWHWTRC1.21 Dell PowerVault 201S w/4 9.0 GB hard  
drives and redundant power supply

**4.1.1.5.2.2 Puget Sound Traffic Controller Software**

**4.1.1.5.2.2.1 ECSPWSWTRC2.0**

ECSPWSWTRC2.0	Microsoft Windows 2000 Advanced Server Edition, w/SP4
ECSPWSWTRC2.1	IBM MQSeries Version 5.2.1
ECSPWSWTRC2.2	SEAGATE BackupExec for Windows NT (CD-ROM). Enterprise Edition. Current Release.
ECSPWSWTRC2.3	Oracle 9i for Windows Database
ECSPWSWTRC2.4	Oracle Failsafe Version 3.3.2

**4.1.1.5.2.3 Puget Sound Traffic Controller Communication**

**4.1.1.5.2.3.1 ECSPWCMTRC3.0**

ECSPWCMTRC3.0	10 Base-T Ethernet Hub; Connectors (8) RJ45, (1) AUI, (1) BNC
ECSPWCMTRC3.1	RJ45 Cable 10-ft.; Qty-1; Traffic Controller -> Ethernet Hub
ECSPWCMTRC3.2	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1
ECSPWCMTRC3.3	Analog Line; RJ11 Cable; Phone Wall Jack -> 33.6 Internal Modem
ECSPWCMTRC3.4	Pocket Workgroup Bridge; 2-AUI ports; Qty-1; BLACKBOX Part # LB1001A; 1M -> Hub -> 1F -> Transceiver
ECSPWCMTRC3.5	Mini 10BT Transceiver; 1 AUI M; 1 RJ45; Qty-1; BLACKBOX Part # LE2041A
ECSPWCMTRC3.6	RJ45 Cable 25-ft.; Qty-1
ECSPWCMTRC3.7	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
ECSPWCMTRC3.8	RS-422 Cable 10-ft.; HD15F - HD15M; Qty-1; DIGI Part # 62110120

**4.1.1.5.3 Puget Sound Database Controller**

**4.1.1.5.3.1 Puget Sound Database Controller Hardware**

**4.1.1.5.3.1.1 ECSPWHWDBA1.0**

ECSPWHWDBA1.0	Database Controller Server; w/dual Intel 933 MHz Pentium III Processor
ECSPWHWDBA1.1	256K Cache
ECSPWHWDBA1.2	256 MB RAM (Expandable to 512 MB)
ECSPWHWDBA1.3	1.44MB 3.5" Floppy Drive
ECSPWHWDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced

ECSPWHWDBA1.5	PCI SVGA Video Card, 2 MB RAM
ECSPWHWDBA1.6	9.0 GB SCSI Disk Drive; Qty 3
ECSPWHWDBA1.7	PV100T, DDS4, 10/40G, Internal Tape Unit
ECSPWHWDBA1.8	Intel PRO 100+ NIC (100 BASET)
ECSPWHWDBA1.9	700-Watt Power Supply
ECSPWHWDBA1.10	Tower Chassis
ECSPWHWDBA1.11	Keyboard, Standard 101 Key
ECSPWHWDBA1.12	4 PCI, 2 ISA/PCI Slot Shared
ECSPWHWDBA1.13	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSPWHWDBA1.14	24X Speed Internal IDE CD-ROM
ECSPWHWDBA1.15	Microsoft Mouse
ECSPWHWDBA1.16	1 Parallel, 2 Serial Ports
ECSPWHWDBA1.17	V.34 33.6 Internal Modem ISA
ECSPWHWDBA1.18	UPS (110v), 1400 Watt w/ cable and software to support Windows NT; DB9M - DB25M Adapter
ECSPWHWDBA1.19	1X6 Hot Pluggable Backplane
ECSPWHWDBA1.20	PERC3/DC, 128MB RAID Controller, Qty 2

#### 4.1.1.5.3.2 Puget Sound Database Controller Software

##### 4.1.1.5.3.2.1 ECSPWSWDBA2.0

ECSPWSWDBA2.0	Microsoft Windows 2000 Advanced Server.
ECSPWSWDBA2.1	IBM MQSeries Version 5.2.1
ECSPWSWDBA2.2	Oracle 9i for Windows Database
ECSPWSWDBA2.3	Oracle Failsafe Version 3.3.2

#### 4.1.1.5.3.3 Puget Sound Database Controller Communication

##### 4.1.1.5.3.3.1 ECSPWCMDBA3.0

ECSPWCMDBA3.0	10 Base-T Ethernet Hub; Connectors (8) RJ45, (1) AUI, (1) BNC
ECSPWCMDBA3.1	RJ45 Cable 10-ft.; Qty-1; Traffic Controller -> Ethernet Hub
ECSPWCMDBA3.2	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1 Analog Line; RJ11 Cable; Phone Wall Jack
ECSPWCMDBA3.3	-> 33.6 Internal Modem

4.1.1.5.4    **Puget Sound Carousel Subcontroller**

4.1.1.5.4.1    **Puget Sound Carousel Subcontroller Hardware**

4.1.1.5.4.1.1    **ECSPWHWCAR1.0**

ECSPWHWCAR1.0	Carousel Subcontroller; Intel 933MHz Pentium III Processor
ECSPWHWCAR1.1	256K Cache
ECSPWHWCAR1.2	256 MB RAM (Expandable to 512 MB)
ECSPWHWCAR1.3	1.44MB 3.5" Floppy Drive
ECSPWHWCAR1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSPWHWCAR1.5	Intel 3D Graphics w/Direct AGP and 4MB Cache
ECSPWHWCAR1.6	10.0 GB ATA/100 Hard Disk Drive
ECSPWHWCAR1.7	PCI 32-bit integrated LAN Card (100/10BASET)
ECSPWHWCAR1.8	300-Watt Power Supply
ECSPWHWCAR1.9	Tower Chassis
ECSPWHWCAR1.10	Keyboard, Standard 101 Key
ECSPWHWCAR1.11	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSPWHWCAR1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSPWHWCAR1.13	20/48X Speed Internal SCSI CD-ROM
ECSPWHWCAR1.14	Microsoft Mouse
ECSPWHWCAR1.15	1 Parallel, 2 Serial Ports

4.1.1.5.4.2    **Puget Sound Carousel Subcontroller Software**

4.1.1.5.4.2.1    **ECSPWSWCAR2.0**

ECSPWSWCAR2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSPWSWCAR2.1	Oracle 9i Client Sofware
ECSPWSWCAR2.2	IBM MQSeries Client Version 5.2.1

4.1.1.5.4.3    **Puget Sound Carousel Subcontroller Communication**

4.1.1.5.4.3.1    **ECSPWCMCAR3.0**

ECSPWCMCAR3.0	RJ45 Cable 10-ft.; Ethernet Hub -> Carousel Subcontroller
ECSPWCMCAR3.1	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
ECSPWCMCAR3.2	RS-422 Cable 10-ft.; HD15F - HD15M; Qty-1; DIGI Part # 62110120

ECSPWCMCAR3.3	BLACKBOX A/B 3-Port Switch; HD15F/3 & HD15M/6 Connectors and A/B 2-Port Switch; DB25F Connectors; BLACKBOX Quote # 122283; Part # SWCX49900
ECSPWCMCAR3.4	DIGI Serial 8-Port Expansion Board; PCI; DB25M Connectors; Windows NT compatible; Qty 4; DIGI Part # 70001229
ECSPWCMCAR3.5	HD15M Subminiature Connectors; w/ 2 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-C
ECSPWCMCAR3.6	RS-422 Cable; Computer Room to Storage and Consolidation Carousels; Qty 3; Site Installed
ECSPWCMCAR3.7	RS-422 Cable; DIGI to DIGI for Storage Carousel; Qty-1; Site Installed
ECSPWCMCAR3.8	HD15F Subminiature Connectors; w/ 2 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-D
ECSPWCMCAR3.9	RS232 Cable 50 ft.; DB25F - DB25M; Shielded Null Modem; Qty-19; BLACKBOX Part # EYN251-0050

#### 4.1.1.5.5 Puget Sound Conveyor Subcontroller

##### 4.1.1.5.5.1 Puget Sound Conveyor Subcontroller Hardware

###### 4.1.1.5.5.1.1 ECSPWHWCNV1.0

ECSPWHWCNV1.0	Conveyor Subcontroller; Intel 933MHz Pentium III Processor
ECSPWHWCNV1.1	256K Cache
ECSPWHWCNV1.2	256 MB RAM (Expandable to 512 MB)
ECSPWHWCNV1.3	1.44MB 3.5" Floppy Drive
ECSPWHWCNV1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSPWHWCNV1.5	Intel 3D Graphics w/Direct AGP and 4MB Cache
ECSPWHWCNV1.6	10.0 GB ATA/100 Hard Disk Drive
ECSPWHWCNV1.7	PCI 32-bit integrated LAN Card (100/10BASET)
ECSPWHWCNV1.8	300-Watt Power Supply
ECSPWHWCNV1.9	Tower Chassis
ECSPWHWCNV1.10	Keyboard, Standard 101 Key
ECSPWHWCNV1.11	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSPWHWCNV1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSPWHWCNV1.13	20/48X Speed Internal SCSI CD-ROM

ECSPWHWCNV1.14	Microsoft Mouse
ECSPWHWCNV1.15	1 Parallel, 2 Serial Ports

**4.1.1.5.5.2 Puget Sound Conveyor Subcontroller Software**

**4.1.1.5.5.2.1 ECSPWSWCNV2.0**

ECSPWSWCNV2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSPWSWCNV2.1	Oracle 9i Client Software
ECSPWSWCNV2.2	IBM MQSeries Client Version 5.2.1

**4.1.1.5.5.3 Puget Sound Conveyor Subcontroller Communication**

**4.1.1.5.5.3.1 ECSPWCMCNV3.0**

ECSPWCMCNV3.0	RJ45 Cable 10-ft.; Ethernet Hub -> Carousel Subcontroller
ECSPWCMCNV3.1	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
ECSPWCMCNV3.2	RS-422 Cable 10-ft.; HD15F - HD15M; Qty-1; DIGI Part # 62110120
ECSPWCMCNV3.3	BLACKBOX A/B 3-Port Switch; HD15F/3 & HD15M/6 Connectors and A/B 2-Port Switch; DB25F Connectors; BLACKBOX Quote # 122283; Part # SWCX49900
ECSPWCMCNV3.4	DIGI Serial 8-Port Expansion Board; PCI; DB25M Connectors; Windows NT compatible; Qty 4; DIGI Part # 70001229
ECSPWCMCNV3.5	HD15M Subminiature Connectors; w/ 2 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-C
ECSPWCMCNV3.6	RS-422 Cable; Computer Room to Storage and Consolidation Carousels; Qty 3; Site Installed
ECSPWCMCNV3.7	RS-422 Cable; DIGI to DIGI for Storage Carousel; Qty-1; Site Installed
ECSPWCMCNV3.8	HD15F Subminiature Connectors; w/ 2 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-D
ECSPWCMCNV3.9	RS232 Cable 50 ft.; DB25F - DB25M; Shielded Null Modem; Qty-19; BLACKBOX Part # EYN251-0050

4.1.1.6

**Richmond**

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT RICHMOND  
RICHMOND, VA

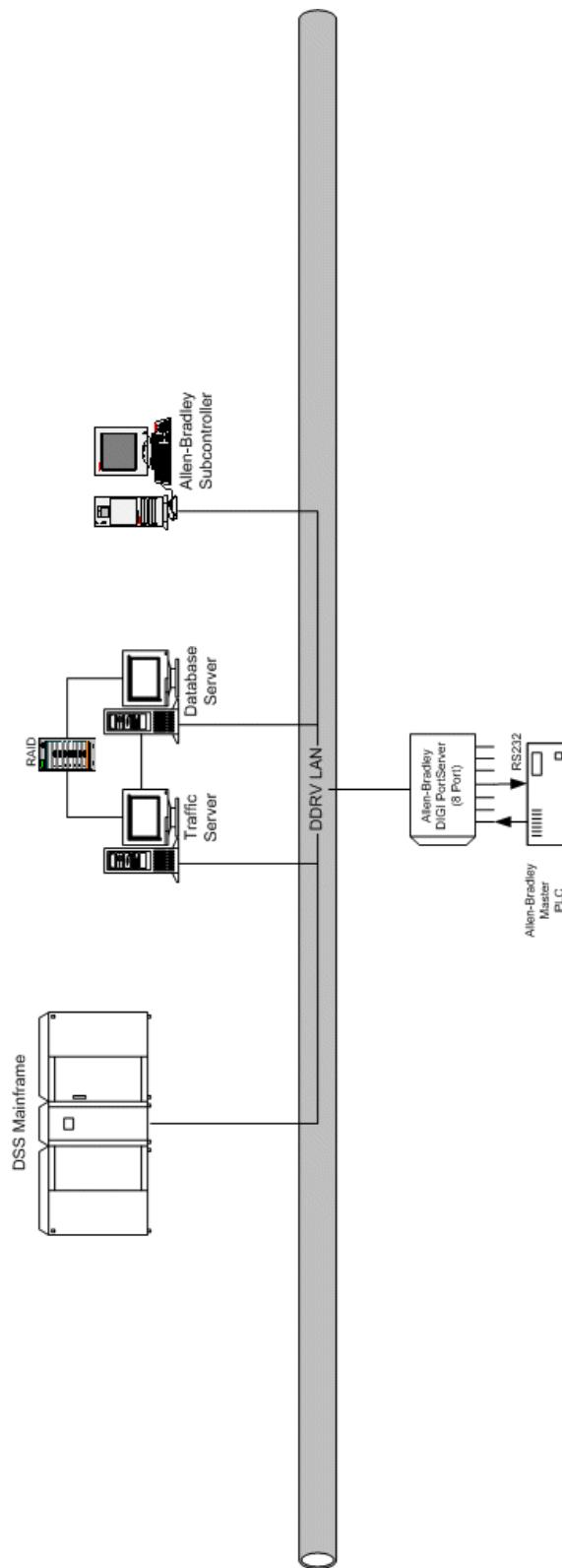


Figure 4.1.1.6-1 Hardware Configuration Defense Distribution Depot Richmond

4.1.1.6.1     **Richmond DSS**

4.1.1.6.1.1   **Richmond DSS Software**

4.1.1.6.1.1.1   **ECSRVSWMFD1.0**

ECSRVSWMFD1.0                  IBM MQSeries. Will be installed with the DSS implementation.

4.1.1.6.2     **Richmond Traffic Controller**

4.1.1.6.2.1   **Richmond Traffic Controller Hardware**

4.1.1.6.2.1.1   **ECSRVHWTRC1.0**

ECSRVHWTRC1.0                  Traffic Controller Server; Intel 1.13 GHz Pentium III Processor  
ECSRVHWTRC1.1                  512K Cache  
ECSRVHWTRC1.2                  512 MB RAM (Expandable to 1 GB)  
ECSRVHWTRC1.3                  1.44 MB 3.5" Floppy Drive  
ECSRVHWTRC1.4                  15" SVGA Color Monitor .28 Non-Interlaced  
ECSRVHWTRC1.5                  PCI SVGA Video Card, 2 MB RAM  
ECSRVHWTRC1.6                  18 GB SCSI Disk Drive, Qty. 3  
ECSRVHWTRC1.7                  PVT100T, DDS4, 20/40G, Internal Tape Unit  
ECSRVHWTRC1.8                  Intel PRO 100 LAN Card, 1 Embedded & 1 Additional  
ECSRVHWTRC1.9                  700-Watt Power Supply  
ECSRVHWTRC1.10                Tower Chassis  
ECSRVHWTRC1.11                Keyboard, Standard 101 Key  
ECSRVHWTRC1.12                4 PCI Slots, 2ISA/PCI Slots Shared  
ECSRVHWTRC1.13                PERC3-DI, 128MB RAID Controller, 2 Channels Internal Imbedded RAID (Primary Controller)  
ECSRVHWTRC1.14                24X Speed Internal IDE CD-ROM  
ECSRVHWTRC1.15                Microsoft Mouse  
ECSRVHWTRC1.16                PERC3-DC, 128MB RAID Controller, 2 Channels External (Secondary Controller)  
ECSRVHWTRC1.17                1X6 Hot Pluggable Backplane  
ECSRVHWTRC1.18                Dell PowerVault 221S disk system w/ (4) 18.0 GB hard drives & redundant power supply  
ECSRVHWTRC1.19                UPS (110v), 1400-Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

**4.1.1.6.2.2 Richmond Traffic Controller Software**

**4.1.1.6.2.2.1 ECSRVSWTRC2.0**

ECSRVSWTRC2.0	Microsoft Windows 2000 Advanced Server Edition, w/SP4.
ECSRVSWTRC2.1	IBM MQSeries Version 5.2.1
ECSRVSWTRC2.2	Oracle 9i for Windows Database
ECSRVSWTRC2.3	Oracle 9i FailSafe Version 3.3.2

**4.1.1.6.2.3 Richmond Traffic Controller Communication**

**4.1.1.6.2.3.1 ECSRVCMTRC3.0**

ECSRVCMTRC3.0	RJ45 Cable 10-ft.; Traffic Controller -> Ethernet Hub
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**4.1.1.6.3 Richmond Database Controller**

**4.1.1.6.3.1 Richmond Database Controller Hardware**

**4.1.1.6.3.1.1 ECSRVHWDBA1.0**

ECSRVHWDBA1.0	Database Controller Server; Intel 1.13 GHz Pentium III Processor
ECSRVHWDBA1.1	512K Cache
ECSRVHWDBA1.2	512 MB RAM (Expandable to 1 GB)
ECSRVHWDBA1.3	1.44 MB 3.5" Floppy Drive
ECSRVHWDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSRVHWDBA1.5	PCI SVGA Video Card, 2 MB RAM
ECSRVHWDBA1.6	18 GB SCSI Disk Drive, Qty. 3
ECSRVHWDBA1.7	PVT100T, DDS4, 20/40G, Internal Tape Unit
ECSRVHWDBA1.8	Intel PRO 100 LAN Card, 1 Embedded & 1 Additional
ECSRVHWDBA1.9	700-Watt Power Supply
ECSRVHWDBA1.10	Tower Chassis
ECSRVHWDBA1.11	Keyboard, Standard 101 Key
ECSRVHWDBA1.12	4 PCI Slots, 2ISA/PCI Slots Shared
ECSRVHWDBA1.13	PERC3-DI, 128MB RAID Controller, 2 Channels Internal Imbedded RAID (Primary Controller)
ECSRVHWDBA1.14	24X Speed Internal IDE CD-ROM
ECSRVHWDBA1.15	Microsoft Mouse
ECSRVHWDBA1.16	PERC3-DC, 128MB RAID Controller, 2 Channels External (Secondary Controller)
ECSRVHWDBA1.17	1X6 Hot Pluggable Backplane

ECSRHWDBA1.18	UPS (110v), 1400-Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter
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**4.1.1.6.3.2 Richmond Database Controller Software**

**4.1.1.6.3.2.1 ECSRVSWDBA2.0**

ECSRVSWDBA2.0	Microsoft Windows 2000 Advanced Server Edition, w/SP4.
ECSRVSWDBA2.1	IBM MQSeries Version 5.2.1
ECSRVSWDBA2.2	Oracle 9i for Windows Database
ECSRVSWDBA2.3	Oracle 9i FailSafe Version 3.3.2

**4.1.1.6.3.3 Richmond Database Controller Communication**

**4.1.1.6.3.3.1 ECSRVCMDBA3.0**

ECSRVCMDBA3.0	RJ45 Cable 10-ft.; Database Controller -> Ethernet Hub
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**4.1.1.6.4 Richmond Allen-Bradley PLC's (ABP) Subcontroller**

**4.1.1.6.4.1 Richmond ABP Subcontroller Hardware**

**4.1.1.6.4.1.1 ECSRHWABP1.0**

ECSRHWABP1.0	Allen-Bradley Subcontroller; Intel 1.7 GHz Pentium 4 Processor
ECSRHWABP1.1	512K Cache
ECSRHWABP1.2	256 MB RAM (Expandable to 1 GB)
ECSRHWABP1.3	1.44 MB 3.5" Floppy Drive
ECSRHWABP1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSRHWABP1.5	32 MB ATI Ultra 128, Integrated
ECSRHWABP1.6	40 GB EIDE Hard Disk Drive
ECSRHWABP1.7	10/100 3COM Internal NIC, Integrated
ECSRHWABP1.8	300-Watt Power Supply
ECSRHWABP1.9	Tower Chassis
ECSRHWABP1.10	Keyboard, Standard 101 Key
ECSRHWABP1.11	48X Speed Internal CD-ROM
ECSRHWABP1.12	Microsoft Mouse
ECSRHWABP1.13	1 Parallel, 2 Serial Ports

4.1.1.6.4.2 **Richmond ABP Subcontroller Software**

4.1.1.6.4.2.1 **ECSRVSWABP2.0**

ECSRVSWABP2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSRVSWABP2.1	IBM MQSeries Client Version 5.2.1
ECSRVSWABP2.2	Oracle 9i Client Software
ECSRVSWABP2.3	DIGI RealPort drivers

4.1.1.6.4.3 **Richmond ABP Subcontroller Communication**

4.1.1.6.4.3.1 **ECSRVCMABP3.0**

ECSRVCMABP3.0	RJ45 Cable 10-ft.; DDRV LAN -> Allen-Bradley Subcontroller
ECSRVCMABP3.1	RS232 Cable 5 ft.; RJ45 - DB25M; Existing; Qty-2; DIGI PortServer I-> Allen-Bradley PLC
ECSRVCMABP3.2	DIGI PortServer I w/ 8 RJ45 -> DB25 Ports; DIGI Part # 70000860

4.1.1.7      New Cumberland

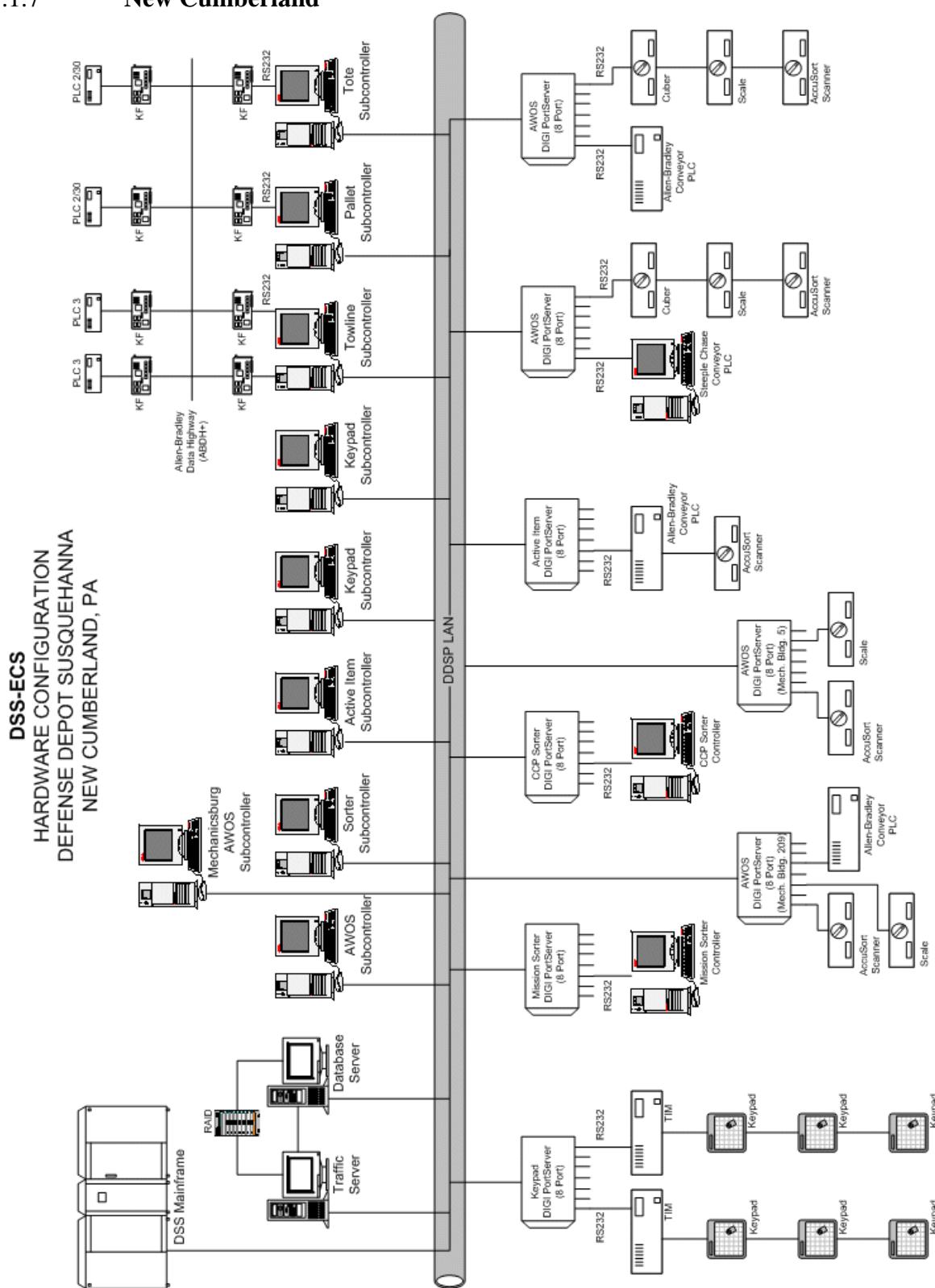


Figure 4.1.1.7-1 Hardware Configuration Defense Distribution Depot New Cumberland

4.1.1.7.1 **New Cumberland DSS**

4.1.1.7.1.1 **New Cumberland DSS Hardware**

4.1.1.7.1.1.1 **ECSS2HWMFD1.0**

None

4.1.1.7.1.2 **New Cumberland DSS Software**

4.1.1.7.1.2.1 **ECSS2SWMFD2.0**

ECSS2SWMFD2.0 IBM MQSeries. Will be installed with the DSS implementation.

4.1.1.7.2 **New Cumberland Traffic Controller**

4.1.1.7.2.1 **New Cumberland Traffic Controller Hardware**

4.1.1.7.2.1.1 **ECSS2HWTRC1.0**

ECSS2HWTRC1.0 Traffic Controller Server; w/ dual Intel 500 MHz Pentium III Processor to include at a minimum:

512K Cache  
256MB RAM (Expandable to 512 MB)  
1.44MB 3.5" Floppy Drive  
15" SVGA Color Monitor .28 Non-Interlaced  
PCI SVGA Video Card, 2MB RAM  
4.0 GB SCSI Disk Drive, Qty 3  
20 GB SCSI DAT Internal Tape Unit  
PCI 32-bit LAN Card (10/100 BASET), Qty 2

ECSS2HWTRC1.1  
ECSS2HWTRC1.2  
ECSS2HWTRC1.3  
ECSS2HWTRC1.4  
ECSS2HWTRC1.5  
ECSS2HWTRC1.6  
ECSS2HWTRC1.7  
ECSS2HWTRC1.8  
ECSS2HWTRC1.9  
ECSS2HWTRC1.10  
ECSS2HWTRC1.11  
ECSS2HWTRC1.12  
ECSS2HWTRC1.13  
ECSS2HWTRC1.14

700-Watt Power Supply  
Tower Chassis  
Keyboard, Standard 101 Key  
4 EISA, 6 PCI  
PowerEdge Raid controller  
PCI 32-bit SCSI Caching Controller w/  
4MB RAM Cache

ECSS2HWTRC1.15  
ECSS2HWTRC1.16  
ECSS2HWTRC1.17  
ECSS2HWTRC1.18  
ECSS2HWTRC1.19  
8X Eight Speed Internal SCSI CD-ROM  
Microsoft Mouse  
1 Parallel, 2 Serial Ports  
Dell PowerEdge Scalable disk system w/ (4)  
4GB hard drives & redundant power supply  
V.34 33.6 Internal Modem ISA

**4.1.1.7.2.2 New Cumberland Traffic Controller Software**

**4.1.1.7.2.2.1 ECSS2SWTRC2.0**

ECSS2SWTRC2.0	Microsoft Windows 2000 Advanced Server, SP4 (CD-ROM documentation)
ECSS2SWTRC2.1	IBM MQSeries Version 5.2.1
ECSS2SWTRC2.2	SEAGATE BackupExec for Windows NT (CD-ROM). Enterprise Edition. Current Release
ECSS2SWTRC2.3	Oracle 9i for Windows Database
ECSS2SWTRC2.4	Oracle Failsafe Version 3.3.1

**4.1.1.7.2.3 New Cumberland Traffic Controller Communication**

**4.1.1.7.2.3.1 ECSS2CMTRC3.0**

ECSS2CMTRC3.0	Cabletron 16 port SmartSwitch module 10/100 Ethernet
ECSS2CMTRC3.1	RJ45 Cable 75-ft., Qty-1
ECSS2CMTRC3.3	RJ45 Cable 25-ft., Qty 2
ECSS2CMTRC3.4	RS-232 Cable 35-ft.; DB25M - DB25M
ECSS2CMTRC3.5	RS-232 Cable 6-ft.; HD26F - DB25M
ECSS2CMTRC3.6	Analog Line; RJ11 Cable; Phone Wall Jack -> 33.6 Internal Modem

**4.1.1.7.3 New Cumberland Data Base Subcontroller**

**4.1.1.7.3.1 New Cumberland Data Base Subcontroller Hardware**

**4.1.1.7.3.1.1 ECSS2HWDBA1.0**

ECSS2HWDBA1.0	Data Base Subcontroller; w/dual Intel 500MHz Pentium III Processor to include at a minimum:
ECSS2HWDBA1.1	512K Cache
ECSS2HWDBA1.2	256MB RAM (Expandable to 512 MB)
ECSS2HWDBA1.3	1.44MB 3.5" Floppy Drive
ECSS2HWDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSS2HWDBA1.5	PCI SVGA Video Card, 2MB RAM
ECSS2HWDBA1.6	4.0 GB SCSI Disk Drive; Qty 3
ECSS2HWDBA1.7	20 GB SCSI DAT Internal Tape Unit
ECSS2HWDBA1.8	PCI 32-bit LAN Card (10/100Baset), Qty 2
ECSS2HWDBA1.9	700-Watt Power Supply
ECSS2HWDBA1.10	Tower Chassis
ECSS2HWDBA1.11	Keyboard, Standard 101 Key
ECSS2HWDBA1.12	4 EISA, 6 PCI

ECSS2HWDBA1.13	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWDBA1.14	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWDBA1.15	Microsoft Mouse
ECSS2HWDBA1.16	1 Parallel, 2 Serial Ports
ECSS2HWDBA1.17	V.34 33.6 Internal Modem ISA

**4.1.1.7.3.2 New Cumberland Data Base Subcontroller Software**

**4.1.1.7.3.2.1 ECSS2SWDBA2.0**

ECSS2CMDBA2.0	Microsoft Windows 2000 Advanced Server, SP4 (CD-ROM documentation).
ECSS2CMDBA2.1	IBM MQSeries Version 5.2.1.
ECSS2SWTRC2.3	Oracle 9i for Windows Database
ECSS2SWTRC2.4	Oracle Failsafe Version 3.3.1

**4.1.1.7.3.3 New Cumberland Data Base Subcontroller Communication**

**4.1.1.7.3.3.1 ECSS2CMDBA3.0**

ECSS2CMDBA3.0	Analog Line
ECSS2CMDBA3.1	RJ45 Cable 75-ft.
ECSS2CMDBA3.2	RS-232 Cable 10ft.; HD26F - DB25M
ECSS2CMDBA3.3	ABC-25 Switch; DB25F Connectors

**4.1.1.7.4 New Cumberland Keypad Subcontroller**

**4.1.1.7.4.1 New Cumberland Keypad Subcontroller Hardware; Qty 2**

**4.1.1.7.4.1.1 ECSS2HWKPD1.0**

ECSS2HWKPD1.0	Keypad Subcontroller Server; Intel 233MHz Pentium Pro Processor to include at a minimum:
ECSS2HWKPD1.1	512K Cache
ECSS2HWKPD1.2	256MB RAM (Expandable to 512 MB)
ECSS2HWKPD1.3	1.44MB 3.5" Floppy Drive
ECSS2HWKPD1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSS2HWKPD1.5	PCI SVGA Video Card, 2MB RAM
ECSS2HWKPD1.6	4.0 GB SCSI Disk Drive
ECSS2HWKPD1.7	PCI 32-bit LAN Card (100/10BASET)
ECSS2HWKPD1.8	300-Watt Power Supply
ECSS2HWKPD1.9	Tower Chassis
ECSS2HWKPD1.10	Keyboard, Standard 101 Key
ECSS2HWKPD1.11	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared

ECSS2HWKPD1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWKPD1.13	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWKPD1.14	Microsoft Mouse
ECSS2HWKPD1.15	1 Parallel, 2 Serial Ports

**4.1.1.7.4.2 New Cumberland Keypad Subcontroller Software; Qty 2**

**4.1.1.7.4.2.1 ECSS2SWKPD2.0**

ECSS2SWKPD2.0	Microsoft Windows 2000 Professional Edition, SP4 ECSS2SWKPD2.1 DIGI RealPort software
ECSS2SWKPD2.2	IBM MQSeries Client Software

**4.1.1.7.4.3 New Cumberland Keypad Subcontroller Communication**

**4.1.1.7.4.3.1 ECSS2CMKPD3.0**

ECSS2CMKPD3.0	RJ45 Cable 75-ft.; Ethernet Hub -> Keypad Subcontroller; Qty 2
ECSS2CMKPD3.1	DIGI PortServer I (8 port); Qty 10; DIGI Part # 70000860
ECSS2CMKPD3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 25; DIGI Part # 76000129

**4.1.1.7.5 New Cumberland Towline Subcontroller**

**4.1.1.7.5.1 New Cumberland Towline Subcontroller Hardware**

**4.1.1.7.5.1.1 ECSS2HWTOW1.0**

ECSS2HWTOW1.0	Towline Subcontroller Server; Intel 233MHz Pentium Pro Processor to include at a minimum: 512K Cache 128MB RAM (Expandable to 512 MB) 1.44MB 3.5" Floppy Drive 15" SVGA Color Monitor .28 Non-Interlaced PCI SVGA Video Card, 2 MB RAM 4.0 GB SCSI Disk Drive PCI 32-bit LAN Card (100/10BASET) 300-Watt Power Supply Tower Chassis Keyboard, Standard 101 Key 3 ISA, 3 PCI, 1 ISA/PCI Slot Shared
ECSS2HWTOW1.1	
ECSS2HWTOW1.2	
ECSS2HWTOW1.3	
ECSS2HWTOW1.4	
ECSS2HWTOW1.5	
ECSS2HWTOW1.6	
ECSS2HWTOW1.7	
ECSS2HWTOW1.8	
ECSS2HWTOW1.9	
ECSS2HWTOW1.10	
ECSS2HWTOW1.11	

ECSS2HWTOW1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWTOW1.13	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWTOW1.14	Microsoft Mouse
ECSS2HWTOW1.15	1 Parallel, 2 Serial

**4.1.1.7.5.2 New Cumberland Towline Subcontroller Software**

**4.1.1.7.5.2.1 ECSS2SWTOW2.0**

ECSS2SWTOW2.0	Microsoft Windows 2000 Professional Edition, SP4.
ECSS2SWTOW2.1	IBM MQSeries Client Software
ECSS2SWTOW2.2	Oracle 9i Client Software

**4.1.1.7.5.3 New Cumberland Towline Subcontroller Communication**

**4.1.1.7.5.3.1 ECSS2CMTOW3.0**

ECSS2CMTOW3.0	RJ45 Cable 75-ft.; Ethernet Hub -> Towline Subcontroller
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**4.1.1.7.6 New Cumberland Pallet Conveyor Subcontroller**

**4.1.1.7.6.1 New Cumberland Pallet Conveyor Subcontroller Hardware**

**4.1.1.7.6.1.1 ECSS2HWPCY1.0**

ECSS2HWPCY1.0	Pallet Conveyor Subcontroller Server; Intel 233MHz Pentium Pro Processor to include at a minimum:
ECSS2HWPCY1.1	512K Cache
ECSS2HWPCY1.2	128MB RAM (Expandable to 512 MB)
ECSS2HWPCY1.3	1.44MB 3.5" Floppy Drive
ECSS2HWPCY1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSS2HWPCY1.5	PCI SVGA Video Card, 2MB RAM
ECSS2HWPCY1.6	4.0 GB SCSI Disk Drive
ECSS2HWPCY1.7	PCI 32-bit LAN Card (100/10BASET)
ECSS2HWPCY1.8	300-Watt Power Supply
ECSS2HWPCY1.9	Tower Chassis
ECSS2HWPCY1.10	Keyboard, Standard 101 Key
ECSS2HWPCY1.11	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared
ECSS2HWPCY1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWPCY1.13	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWPCY1.14	Microsoft Mouse
ECSS2HWPCY1.15	1 Parallel, 2 Serial Ports

**4.1.1.7.6.2 New Cumberland Pallet Conveyor Subcontroller Software**

**4.1.1.7.6.2.1 ECSS2SWPCY2.0**

ECSS2SWPCY2.0	Microsoft Windows 2000 Professional Edition, SP4
ECSS2SWPCY2.1	IBM MQSeries Client Software
ECSS2SWPCY2.2	Oracle 9i Client Software

**4.1.1.7.6.3 New Cumberland Pallet Conveyor Subcontroller Communication**

**4.1.1.7.6.3.1 ECSS2CMPCY3.0**

ECSS2CMPCY3.0	RJ45 Cable 75-ft.; Ethernet Hub -> Pallet Conveyor Subcontroller
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**4.1.1.7.7 New Cumberland Tote Conveyor Subcontroller**

**4.1.1.7.7.1 New Cumberland Tote Conveyor Subcontroller Hardware**

**4.1.1.7.7.1.1 ECSS2HWTCY1.0**

ECSS2HWTCY1.0	Tote Conveyor Subcontroller Server; Intel 233MHz Pentium Pro Processor to include at a minimum:
ECSS2HWTCY1.1	512K Cache
ECSS2HWTCY1.2	128 MB RAM (Expandable to 512 MB)
ECSS2HWTCY1.3	1.44MB 3.5" Floppy Drive
ECSS2HWTCY1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSS2HWTCY1.5	PCI SVGA Video Card, 2MB RAM
ECSS2HWTCY1.6	4.0GB SCSI Disk
ECSS2HWTCY1.7	PCI 32-bit LAN Card (100/10BASET)
ECSS2HWTCY1.8	300-Watt Power Supply
ECSS2HWTCY1.9	Tower Chassis
ECSS2HWTCY1.10	Keyboard, Standard 101 Key
ECSS2HWTCY1.11	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared
ECSS2HWTCY1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWTCY1.13	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWTCY1.14	Microsoft Mouse
ECSS2HWTCY1.15	1 Parallel, 2 Serial Ports

**4.1.1.7.7.2 New Cumberland Tote Conveyor Subcontroller Software**

**4.1.1.7.7.2.1 ECSS2SWTCY2.0**

ECSS2SWTCY2.0	Microsoft Windows 2000 Professional Edition, SP4
ECSS2SWTCY2.1	IBM MQSeries Client Software
ECSS2SWTCY2.2	Oracle 9i Client Software

**4.1.1.7.7.3 New Cumberland Tote Conveyor Subcontroller Communication**

**4.1.1.7.7.3.1 ECSS2CMTCY3.0**

ECSS2CMTCY3.0	RJ45 Cable 75-ft.; Ethernet Hub -> Tote Conveyor Subcontroller
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**4.1.1.7.8 New Cumberland Sortation Subcontroller**

**4.1.1.7.8.1 New Cumberland Sortation Subcontroller Hardware**

**4.1.1.7.8.1.1 ECSS2HWSRT1.0**

ECSS2HWSRT1.0	Sortation Subcontroller Server; Intel 233MHz Pentium Pro Processor to include at a minimum:
ECSS2HWSRT1.1	512K Cache
ECSS2HWSRT1.2	128MB RAM (Expandable to 512 MB)
ECSS2HWSRT1.3	1.44MB 3.5" Floppy Drive
ECSS2HWSRT1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSS2HWSRT1.5	PCI SVGA Video Card, 2MB RAM
ECSS2HWSRT1.6	4.0GB SCSI Disk
ECSS2HWSRT1.7	PCI 32-bit LAN Card (100/10BASET)
ECSS2HWSRT1.8	300-Watt Power Supply
ECSS2HWSRT1.9	Tower Chassis
ECSS2HWSRT1.10	Keyboard, Standard 101 Key
ECSS2HWSRT1.11	3 ISA, 3 PCI, 1 ISA/PCI Slot Shared
ECSS2HWSRT1.12	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWSRT1.13	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWSRT1.14	Microsoft Mouse
ECSS2HWSRT1.15	1 Parallel, 2 Serial Ports

**4.1.1.7.8.2 New Cumberland Sortation Subcontroller Software**

**4.1.1.7.8.2.1 ECSS2SWSRT2.0**

ECSS2SWSRT2.0	Microsoft Windows 2000 Professional Edition, SP4
ECSS2SWSRT2.1	DIGI RealPort software IBM MQSeries Client Software

**4.1.1.7.8.3 New Cumberland Sortation Subcontroller Communication**

**4.1.1.7.8.3.1 ECSS2CMSRT3.0**

ECSS2CMSRT3.0	RJ45 Cable 75-ft.; Ethernet Hub -> Sortation Subcontroller
ECSS2CMSRT3.1	DIGI PortServer I (8 port); Qty 2; DIGI Part # 70000860
ECSS2CMSRT3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 2; DIGI Part # 76000129

**4.1.1.7.9 New Cumberland Workstations**

**4.1.1.7.9.1 New Cumberland Workstation Hardware; Qty-11**

**4.1.1.7.9.1.1 ECSS2HWWKS1.0**

ECSS2HWWKS1.0	Workstation Subcontroller; Intel 200MHz Pentium Pro Processor
ECSS2HWWKS1.1	256K Cache
ECSS2HWWKS1.2	32MB RAM (Expandable to 128MB)
ECSS2HWWKS1.3	1.44MB 3.5" Floppy Drive
ECSS2HWWKS1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSS2HWWKS1.5	PCI SVGA Video Card, 2MB RAM
ECSS2HWWKS1.6	2.0 GB Disk Drive
ECSS2HWWKS1.7	PCI 32-bit LAN Card (10BASET)
ECSS2HWWKS1.8	200-Watt Power Supply
ECSS2HWWKS1.9	Keyboard, Standard 101 Key
ECSS2HWHPP1.10	12X Twelve Speed Internal SCSI CD-ROM
ECSS2HWHPP1.11	Microsoft Mouse
ECSS2HWHPP1.12	1 Parallel, 2 Serial Ports

4.1.1.7.9.2 **New Cumberland Workstation Software; Qty-11**

4.1.1.7.9.2.1 **ECSS2SWWKS2.0**

ECSS2SWWKS2.0	Microsoft Windows 2000 Professional Edition, SP4
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4.1.1.7.9.3 **New Cumberland Workstation Communication; Qty-11**

4.1.1.7.9.3.1 **ECSS2CMWKS3.0**

ECSS2CMWKS3.0	DDSP-E Local Area Network (LAN)
ECSS2CMWKS3.1	RJ45 Cable 25-ft.

4.1.1.7.10 **New Cumberland AWOS Subcontroller**

4.1.1.7.10.1 **New Cumberland AWOS Subcontroller Hardware**

4.1.1.7.10.1.1 **ECSS2HWAWS1.0**

ECSS2HWAWS1.0	AWOS Subcontroller; Intel 450MHz Pentium III Processor
ECSS2HWAWS1.1	512K Cache
ECSS2HWAWS1.2	128 MB RAM (Expandable to 512 MB)
ECSS2HWAWS1.3	1.44MB 3.5" Floppy Drive
ECSS2HWAWS1.4	PCI SVGA Video Card, 2 MB RAM
ECSS2HWAWS1.5	4.5 GB SCSI Disk Drive
ECSS2HWAWS1.6	PCI 32-bit LAN Card (100/10BASET)
ECSS2HWAWS1.7	300-Watt Power Supply
ECSS2HWAWS1.8	Tower Chassis
ECSS2HWAWS1.9	Keyboard, Standard 101 Key
ECSS2HWAWS1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSS2HWAWS1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSS2HWAWS1.12	8X Eight Speed Internal SCSI CD-ROM
ECSS2HWAWS1.13	Microsoft Mouse
ECSS2HWAWS1.14	1 Parallel, 2 Serial Ports
ECSS2HWAWS1.15	15" SVGA Color Monitor .28 Non-Interlaced

4.1.1.7.10.2 **New Cumberland AWOS Subcontroller Software**

4.1.1.7.10.2.1 **ECSS2SWAWS2.0**

ECSS2SWAWS2.0	Microsoft Windows 2000 Professional Edition, SP4
ECSS2SWAWS2.1	IBM MQSeries Client Software

ECSS2SWAWS2.2	Oracle 9i Client Software
ECSS2SWAWS2.3	DIGI RealPort Software

**4.1.1.7.10.3 New Cumberland AWOS Subcontroller Communication**

**4.1.1.7.10.3.1 ECSS2CMAWS3.0**

ECSS2CMAWS3.0	RJ45 Cable 25-ft.; Ethernet Hub -> AWOS Subcontroller
ECSS2CMAWS3.1	DIGI PortServer I (8 port); Qty 1; DIGI Part # 70000860
ECSS2CMAWS3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 4; DIGI Part # 76000129

**4.1.1.7.11 New Cumberland Active Item Subcontroller**

**4.1.1.7.11.1 New Cumberland Active Item Subcontroller Hardware**

**4.1.1.7.11.1.1 ECSS2HWAIS1.0**

ECSS2HWAIS1.0	Active Item Subcontroller; Intel 866 MHz Pentium III Processor
ECSS2HWAIS1.1	256K Full Speed Cache
ECSS2HWAIS1.2	256 MB RAM (Expandable to 512 MB)
ECSS2HWAIS1.3	1.44MB 3.5" Floppy Drive
ECSS2HWAIS1.4	Intel 3D Graphics w/Direct AGP & 4MB of Cache
ECSS2HWAIS1.5	15 GB EIDE Hard Drive
ECSS2HWAIS1.6	PCI 32-bit LAN Card (100/10BASET)
ECSS2HWAIS1.7	300-Watt Power Supply
ECSS2HWAIS1.8	Tower Chassis
ECSS2HWAIS1.9	Keyboard, Standard 101 Key
ECSS2HWAIS1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSS2HWAIS1.12	20/48X Speed Internal SCSI CD-ROM
ECSS2HWAIS1.13	Microsoft Mouse
ECSS2HWAIS1.14	1 Parallel, 2 Serial Ports
ECSS2HWAIS1.15	15" SVGA Color Monitor .28 Non-Interlaced

**4.1.1.7.11.2 New Cumberland Active Item Subcontroller Software**

**4.1.1.7.11.2.1 ECSS2SWAIS2.0**

ECSS2SWAIS2.0	Microsoft Windows 2000 Professional Edition, SP4
ECSS2SWAIS2.1	IBM MQSeries Client Software
ECSS2SWAIS2.2	Oracle 9i Client Software
ECSS2SWAIS2.3	DIGI RealPort Software

**4.1.1.7.11.3 New Cumberland Active Item Subcontroller Communication**

**4.1.1.7.11.3.1 ECSS2CMAIS3.0**

ECSS2CMAIS3.0	RJ45 Cable 25-ft.; Ethernet Hub -> Active Item Subcontroller
ECSS2CMAIS3.1	DIGI PortServer I (8 port); Qty 1; DIGI Part # 70000860

4.1.1.8      **Pearl Harbor**

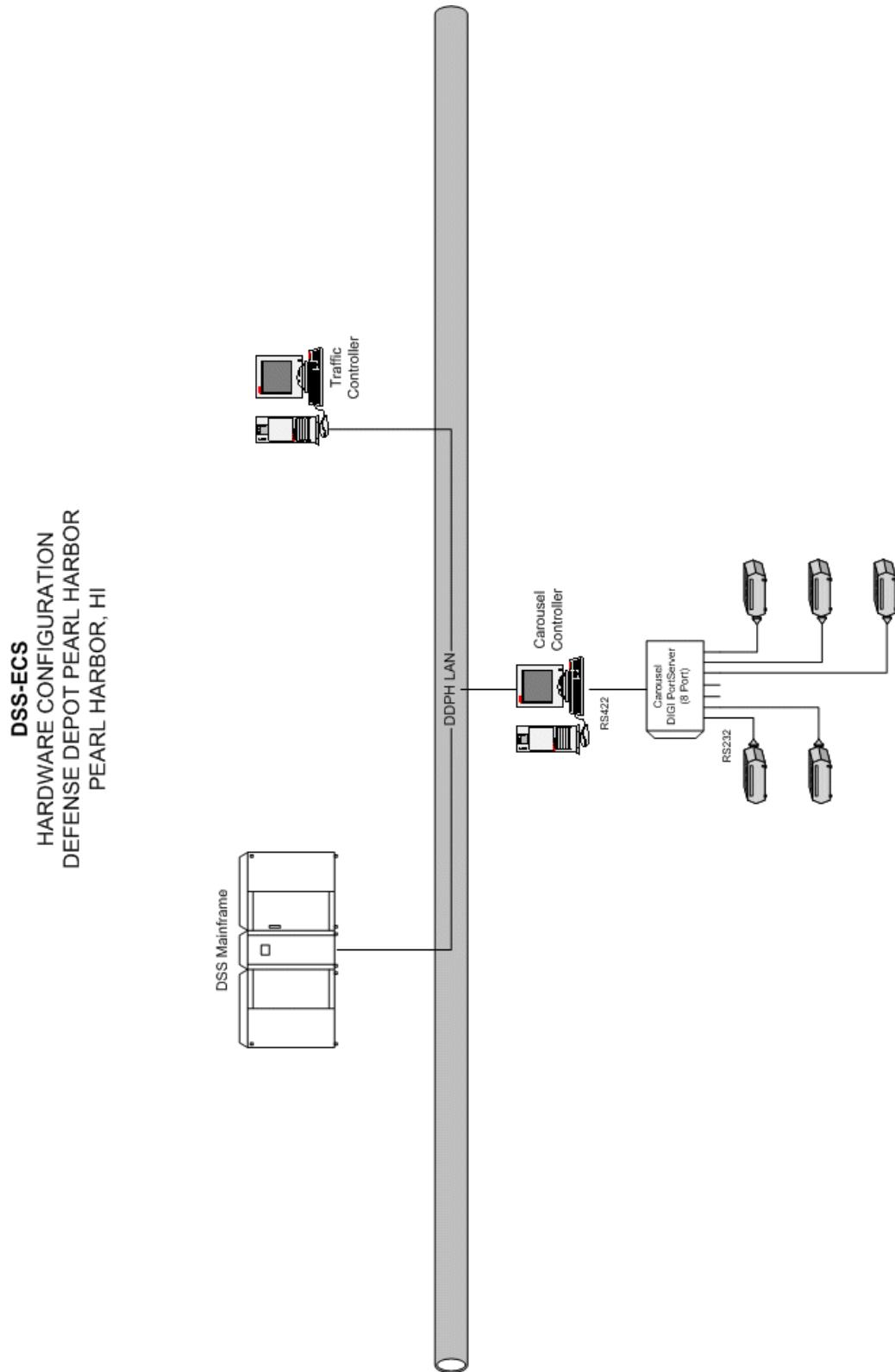


Figure 4.1.1.8-1 Hardware Configuration Defense Distribution Depot Pearl Harbor

4.1.1.8.1 **Pearl Harbor DSS**

4.1.1.8.1.1 **Pearl Harbor DSS Software**

4.1.1.8.1.1.1 **ECSPHSWMFD1.0**

ECSPHSWMFD1.0 IBM MQSeries software. Will be installed with the DSS implementation.

4.1.1.8.2 **Pearl Harbor Traffic Controller**

4.1.1.8.2.1 **Pearl Harbor Traffic Controller Hardware**

4.1.1.8.2.1.1 **ECSPHHWTRC1.0**

ECSPHHWTRC1.0	Traffic Controller Server; 1.7 GHz Pentium 4 Processor
ECSPHHWTRC1.1	512K Cache
ECSPHHWTRC1.2	256 MB RAM
ECSPHHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSPHHWTRC1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSPHHWTRC1.5	32 MB ATI Ultra 128, Integrated
ECSPHHWTRC1.6	40 GB EIDE Hard Disk Drive
ECSPHHWTRC1.7	10/100 3COM Internal NIC, Integrated
ECSPHHWTRC1.8	300-Watt Power Supply
ECSPHHWTRC1.9	Tower Chassis
ECSPHHWTRC1.10	Keyboard, Standard 101 Key
ECSPHHWTRC1.11	48X Speed Internal CD-ROM
ECSPHHWTRC1.12	Microsoft Mouse
ECSPHHWTRC1.13	1 Parallel, 2 Serial Ports
ECSPHHWTRC1.14	UPS (110v), 1400-Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

4.1.1.8.2.2 **Pearl Harbor Traffic Controller Software**

4.1.1.8.2.2.1 **ECSPHSWTRC2.0**

ECSPHSWTRC2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSPHSWTRC2.1	IBM MQSeries Version 5.2.1
ECSPHSWTRC2.2	Oracle 9i Client Software

4.1.1.8.2.3 **Pearl Harbor Traffic Controller Communication**

4.1.1.8.2.3.1 **ECSPHCMTRC3.0**

ECSPHCMTRC3.0 Fast Personal MiniHub-5 Plus

ECSPHCMTRC3.1	RJ45 Cable 10-ft.; Qty-1; Traffic Controller -> Ethernet Hub
ECSPHCMTRC3.2	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1
ECSPHCMTRC3.3	RJ45 Cable 25-ft.; Qty-1
ECSPHCMTRC3.4	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
<b>4.1.1.8.3</b>	<b>Pearl Harbor Carousel Subcontroller</b>
<b>4.1.1.8.3.1</b>	<b>Pearl Harbor Carousel Subcontroller Hardware</b>
<b>4.1.1.8.3.1.1</b>	<b>ECSPHHWCAR1.0</b>
ECSPHHWCAR1.0	Carousel Subcontroller; Intel 1.7 GHz Pentium 4 Processor
ECSPHHWCAR1.1	512K Cache
ECSPHHWCAR1.2	256 MB RAM
ECSPHHWCAR1.3	1.44MB 3.5" Floppy Drive
ECSPHHWCAR1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSPHHWCAR1.5	32 MB ATI Ultra 128, Integrated
ECSPHHWCAR1.6	40 GB EIDE Hard Disk Drive
ECSPHHWCAR1.7	10/100 3COM Internal NIC, Integrated
ECSPHHWCAR1.8	300-Watt Power Supply
ECSPHHWCAR1.9	Tower Chassis
ECSPHHWCAR1.10	Keyboard, Standard 101 Key
ECSPHHWCAR1.11	48X Speed Internal CD-ROM
ECSPHHWCAR1.13	1 Parallel, 2 Serial Ports
<b>4.1.1.8.3.2</b>	<b>Pearl Harbor Carousel Subcontroller Software</b>
<b>4.1.1.8.3.2.1</b>	<b>ECSPHSWCAR2.0</b>
ECSPHSWCAR2.0	Microsoft Windows 2000 Professional Edition w/SP4
ECSPHSWCAR2.1	IBM MQSeries Version 5.2.1
ECSPHSWCAR2.2	Oracle 9i Client Software
<b>4.1.1.8.3.3</b>	<b>Pearl Harbor Carousel Subcontroller Communication</b>
<b>4.1.1.8.3.3.1</b>	<b>ECSPHCMCAR3.0</b>
ECSPHCMCAR3.0	RJ45 Cable 10-ft.; Ethernet Hub -> Carousel Subcontroller
ECSPHCMCAR3.1	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1

DISTRIBUTION STANDARD SYSTEM  
Equipment Control System

September 16, 2004

ECSPHCMCAR3.2	RS-232 Cable 5-ft.; DB25M - DB25M; Qty-1
ECSPHCMCAR3.3	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
ECSPHCMCAR3.4	BLACKBOX A/B 3-Port Switch; HD15F/3 & HD15M/6 Connectors and A/B 2-Port Switch; DB25F Connectors; BLACKBOX Quote # 122283; Part # SWCX49900
ECSPHCMCAR3.5	DIGI Serial 8-Port Expansion Board; PCI; DB25M Connectors; Windows NT compatible; Qty 2; DIGI Part # 70001229
ECSPHCMCAR3.6	HD15M Subminiature Connectors; w/ 3 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-C
ECSPHCMCAR3.7	Fiber Cable; Computer Room to Storage and Consolidation Carousels; Qty-1; Site Installed
ECSPHCMCAR3.8	RS-422 Cable; DIGI to DIGI for Storage Carousel; Qty-1; Site Installed
ECSPHCMCAR3.9	HD15F Subminiature Connectors; w/ 3 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-D

4.1.1.9      **Guam**

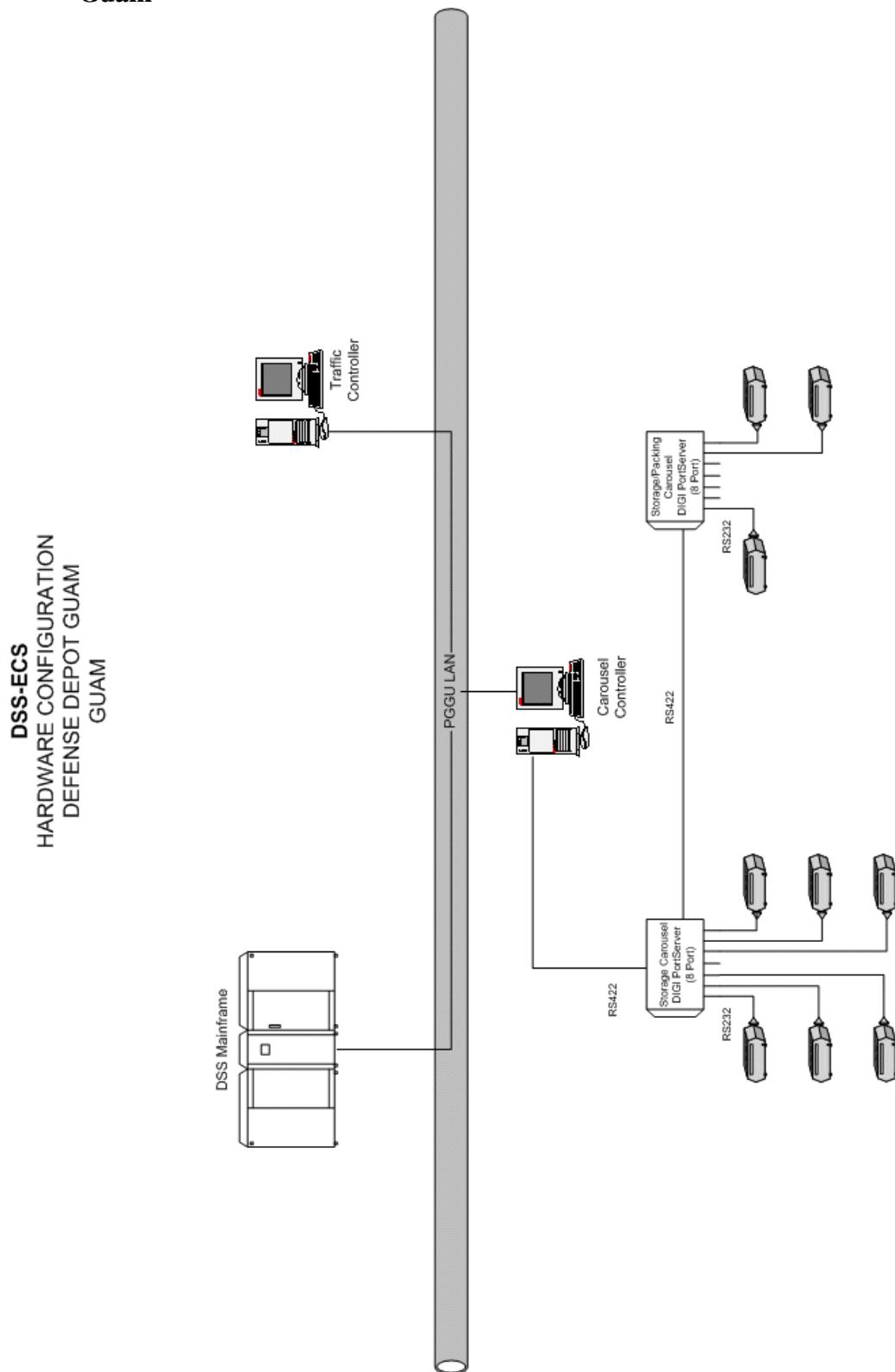


Figure 4.1.1.9-1 Hardware Configuration Defense Distribution Depot Guam

4.1.1.9.1 **Guam DSS**

4.1.1.9.1.1 **Guam DSS Software**

4.1.1.9.1.1.1 **ECSGMSWMFD1.0**

ECSGMSWMFD1.0 IBM MQSeries software. Will be installed with the DSS implementation.

4.1.1.9.2 **Guam Traffic Controller**

4.1.1.9.2.1 **Guam Traffic Controller Hardware**

4.1.1.9.2.1.1 **ECSGMHWTRC1.0**

ECSGMHWTRC1.0	Traffic Controller Server; Intel 1.7 GHz Pentium 4 Processor
ECSGMHWTRC1.1	512K Cache
ECSGMHWTRC1.2	256 MB RAM
ECSGMHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSGMHWTRC1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSGMHWTRC1.5	32 MB ATI Ultra 128, Integrated
ECSGMHWTRC1.6	40 GB EIDE Hard Disk Drive
ECSGMHWTRC1.7	10/100 3COM Internal NIC, Integrated
ECSGMHWTRC1.8	300-Watt Power Supply
ECSGMHWTRC1.9	Tower Chassis
ECSGMHWTRC1.10	Keyboard, Standard 101 Key
ECSGMHWTRC1.11	48X Speed Internal CD-ROM
ECSGMHWTRC1.12	Microsoft Mouse
ECSGMHWTRC1.13	1 Parallel, 2 Serial Ports
ECSGMHWTRC1.14	UPS (110v), 1400-Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

4.1.1.9.2.2 **Guam Traffic Controller Software**

4.1.1.9.2.2.1 **ECSGMSWTRC2.0**

ECSGMSWTRC2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSGMSWTRC2.1	IBM MQSeries Version 5.2.1
ECSGMSWTRC2.2	Oracle 9i Client Software

**4.1.1.9.2.3 Guam Traffic Controller Communication**

**4.1.1.9.2.3.1 ECSGMCMTRC3.0**

ECSGMCMTRC3.0	Fast Personal MiniHub-5 Plus
ECSGMCMTRC3.1	RJ45 Cable 10-ft.; Qty-1; Traffic Controller -> Ethernet Hub
ECSGMCMTRC3.2	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1
ECSGMCMTRC3.3	RJ45 Cable 25-ft.; Qty-1
ECSGMCMTRC3.4	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI

**4.1.1.9.3 Guam Carousel Subcontroller**

**4.1.1.9.3.1 Guam Carousel Subcontroller Hardware**

**4.1.1.9.3.1.1 ECSGMHWCAR1.0**

ECSGMHWCAR1.0	Carousel Subcontroller; Intel 1.7 GHz Pentium 4 Processor
ECSGMHWCAR1.1	512K Cache
ECSGMHWCAR1.2	256 MB RAM
ECSGMHWCAR1.3	1.44MB 3.5" Floppy Drive
ECSGMHWCAR1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSGMHWCAR1.5	32 MB ATI Ultra 128, Integrated
ECSGMHWCAR1.6	40 GB EIDE Hard Disk Drive
ECSGMHWCAR1.7	10/100 3COM Internal NIC, Integrated
ECSGMHWCAR1.8	300-Watt Power Supply
ECSGMHWCAR1.9	Tower Chassis
ECSGMHWCAR1.10	Keyboard, Standard 101 Key
ECSGMHWCAR1.11	48X Speed Internal CD-ROM
ECSGMHWCAR1.12	Microsoft Mouse
ECSGMHWCAR1.13	1 Parallel, 2 Serial Ports

**4.1.1.9.3.2 Guam Carousel Subcontroller Software**

**4.1.1.9.3.2.1 ECSGMSWCAR2.0**

ECSGMSWCAR2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSGMSWCAR2.1	IBM MQSeries Version 5.2.1
ECSGMSWCAR2.2	Oracle 9i Client Software

4.1.1.9.3.3    **Guam Carousel Subcontroller Communication**

4.1.1.9.3.3.1    **ECSGMCMCAR3.0**

ECSGMCMCAR3.0	RJ45 Cable 10-ft.; Ethernet Hub -> Carousel Subcontroller
ECSGMCMCAR3.1	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1
ECSGMCMCAR3.2	RS-232 Cable 5-ft.; DB25M - DB25M; Qty-1
ECSGMCMCAR3.3	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
ECSGMCMCAR3.4	BLACKBOX A/B 3-Port Switch; HD15F/3 & HD15M/6 Connectors and A/B 2-Port Switch; DB25F Connectors; BLACKBOX Quote # 122283; Part # SWCX49900
ECSGMCMCAR3.5	DIGI Serial 8-Port Expansion Board; PCI; DB25M Connectors; Windows NT compatible; Qty 2; DIGI Part # 70001229
ECSGMCMCAR3.6	HD15M Subminiature Connectors; w/ 3 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-C
ECSGMCMCAR3.7	Fiber Cable; Computer Room to Storage and Consolidation Carousels; Qty-1; Site Installed
ECSGMCMCAR3.8	RS-422 Cable; DIGI to DIGI for Storage Carousel; Qty-1; Site Installed
ECSGMCMCAR3.9	HD15F Subminiature Connectors; w/ 3 spares; Qty 6; BLACKBOX Quote # 606612, Part # FA-1311-D

4.1.1.10      **Yokosuka**

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT YOKOSUKA  
YOKOSUKA, JAPAN

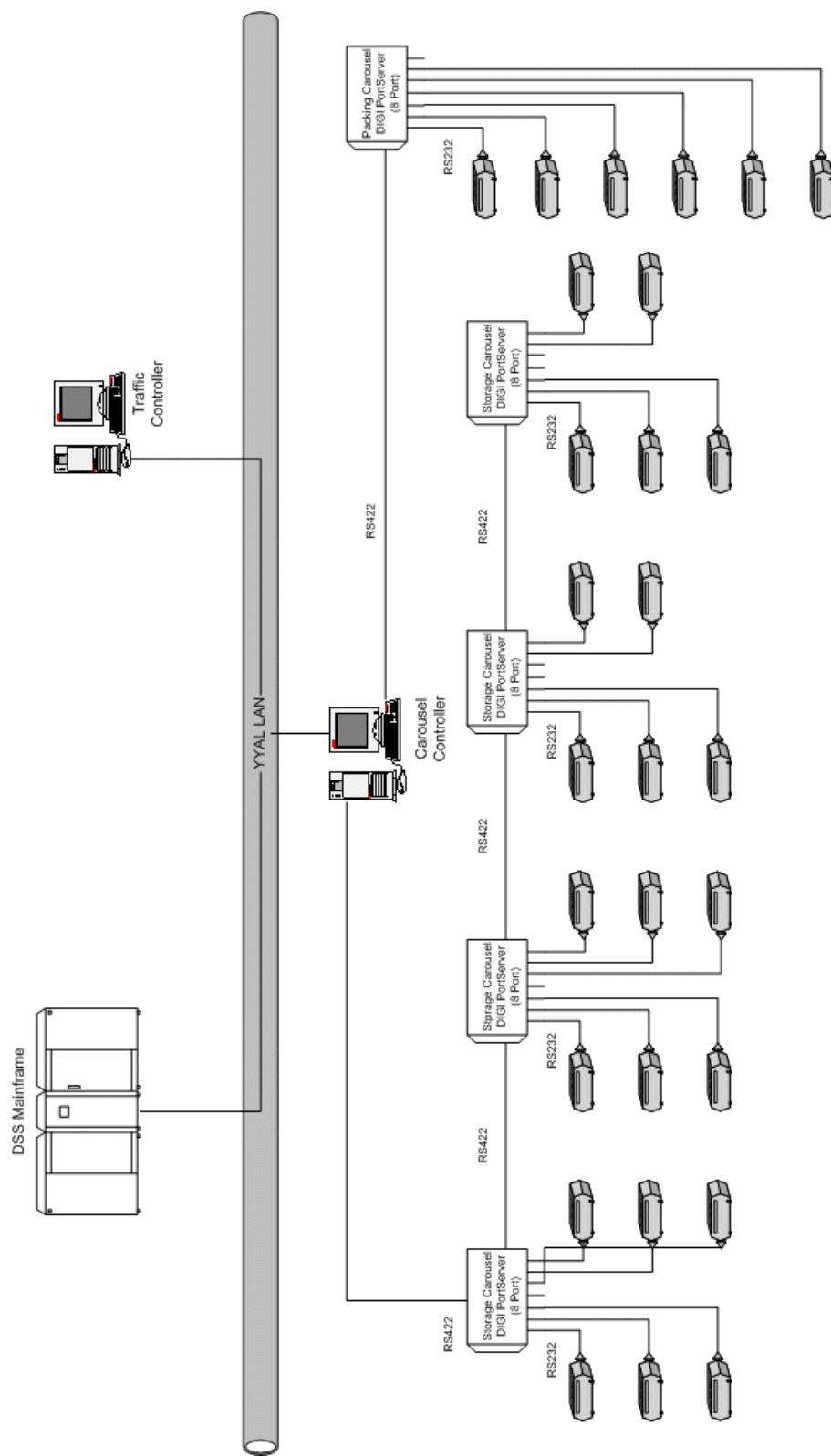


Figure 4.1.1.10-1 Hardware Configuration Defense Distribution Depot Yokosuka

4.1.1.10.1 **Yokosuka DSS**

4.1.1.10.1.1 **Yokosuka DSS Software**

4.1.1.10.1.1.1 **ECSYJSWMFD1.0**

ECSYJSWMFD1.0 IBM MQSeries software. Will be installed with the DSS implementation.

4.1.1.10.2 **Yokosuka Traffic Controller**

4.1.1.10.2.1 **Yokosuka Traffic Controller Hardware**

4.1.1.10.2.1.1 **ECSYJHWTRC1.0**

ECSYJHWTRC1.0	Traffic Controller Server; Intel 1.7 GHz Pentium 4 Processor
ECSYJHWTRC1.1	512K Cache
ECSYJHWTRC1.2	256 MB RAM
ECSYJHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSYJHWTRC1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSYJHWTRC1.5	32 MB ATI Ultra 128, Integrated
ECSYJHWTRC1.6	40 GB EIDE Hard Disk Drive
ECSYJHWTRC1.7	10/100 3COM Internal NIC, Integrated
ECSYJHWTRC1.8	300-Watt Power Supply
ECSYJHWTRC1.9	Tower Chassis
ECSYJHWTRC1.10	Keyboard, Standard 101 Key
ECSYJHWTRC1.11	48X Speed Internal CD-ROM
ECSYJHWTRC1.12	Microsoft Mouse
ECSYJHWTRC1.13	1 Parallel, 2 Serial Ports
ECSYJHWTRC1.14	UPS (110v), 1400-Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

4.1.1.10.2.2 **Yokosuka Traffic Controller Software**

4.1.1.10.2.2.1 **ECSYJSWTRC2.0**

ECSYJSWTRC2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSYJSWTRC2.1	IBM MQSeries Version 5.2.1
ECSYJSWTRC2.2	Oracle 9i Client Software

4.1.1.10.2.3 **Yokosuka Traffic Controller Communication**

4.1.1.10.2.3.1 **ECSYJCMTRC3.0**

ECSYJCMTRC3.0	Fast Personal MiniHub-5 Plus
ECSYJCMTRC3.1	RJ45 Cable 10-ft.; Qty-1; Traffic Controller -> Ethernet Hub
ECSYJCMTRC3.2	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1
ECSYJCMTRC3.3	RJ45 Cable 25-ft.; Qty-1
ECSYJCMTRC3.4	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI

4.1.1.10.3 **Yokosuka Carousel Subcontroller**

4.1.1.10.3.1 **Yokosuka Carousel Subcontroller Hardware**

4.1.1.10.3.1.1 **ECSYJHWCAR1.0**

ECSYJHWCAR1.0	Carousel Subcontroller; Intel 1.7 GHz Pentium 4 Processor
ECSYJHWCAR1.1	512K Cache
ECSYJHWCAR1.2	356 MB RAM
ECSYJHWCAR1.3	1.44MB 3.5" Floppy Drive
ECSYJHWCAR1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSYJHWCAR1.5	32 MB ATI Ultra 138, Integrated
ECSYJHWCAR1.6	40 GB EIDE Hard Disk Drive
ECSYJHWCAR1.7	10/100 3COM Internal NIC, Integrated
ECSYJHWCAR1.8	300-Watt Power Supply
ECSYJHWCAR1.9	Tower Chassis
ECSYJHWCAR1.10	Keyboard, Standard 101 Key
ECSYJHWCAR1.11	48X Speed Internal CD-ROM
ECSYJHWCAR1.12	Microsoft Mouse
ECSYJHWCAR1.13	1 Parallel, 2 Serial Ports

4.1.1.10.3.2 **Yokosuka Carousel Subcontroller Software**

4.1.1.10.3.2.1 **ECSYJSWCAR2.0**

ECSYJSWCAR2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSYJSWCAR2.1	IBM MQSeries Version 5.2.1
ECSYJSWCAR2.2	Oracle 9i Client Software

#### 4.1.1.10.3.3 Yokosuka Carousel Subcontroller Communication

##### 4.1.1.10.3.3.1 ECSYJCMCAR3.0

ECSYJCMCAR3.0	RJ45 Cable 10-ft.; Ethernet Hub -> Carousel Subcontroller
ECSYJCMCAR3.1	RS-232 Cable 10-ft.; DB25M - DB9F; Qty-1
ECSYJCMCAR3.2	RS-232 Cable 5-ft.; DB25M - DB25M; Qty-1
ECSYJCMCAR3.3	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; included w/ DIGI
ECSYJCMCAR3.4	RS-422 Cable 10-ft.; HD15F - HD15M; Qty 2; DIGI Part # 62110120
ECSYJCMCAR3.5	BLACKBOX A/B 3-Port Switch; HD15F/3 & HD15M/6 Connectors and A/B 2-Port Switch; DB25F Connectors; BLACKBOX Quote # 122283; Part # SWCX49900
ECSYJCMCAR3.6	DIGI Serial 8-Port Expansion Board; PCI; DB25M Connectors; Windows NT compatible; Qty 2; DIGI Part # 70001229
ECSYJCMCAR3.7	DIGI C/CON-8 DB25; Qty 3; DIGI Part # 76000218
ECSYJCMCAR3.8	HD15M Subminiature Connectors; w/ 3 spares; Qty 9; BLACKBOX Quote # 606612, Part # FA-1311-C
ECSYJCMCAR3.9	Fiber Cable; Computer Room to Storage Carousels; Qty-1; Site Installed
ECSYJCMCAR3.10	RS-422 Cable; DIGI to DIGI for Storage and Consolidation Carousels; Qty 4; Site Installed
ECSYJCMCAR3.11	HD15F Subminiature Connectors; w/ 3 spares; Qty 9; BLACKBOX Quote # 606612, Part # FA-1311-D

4.1.1.11      **Tracy**

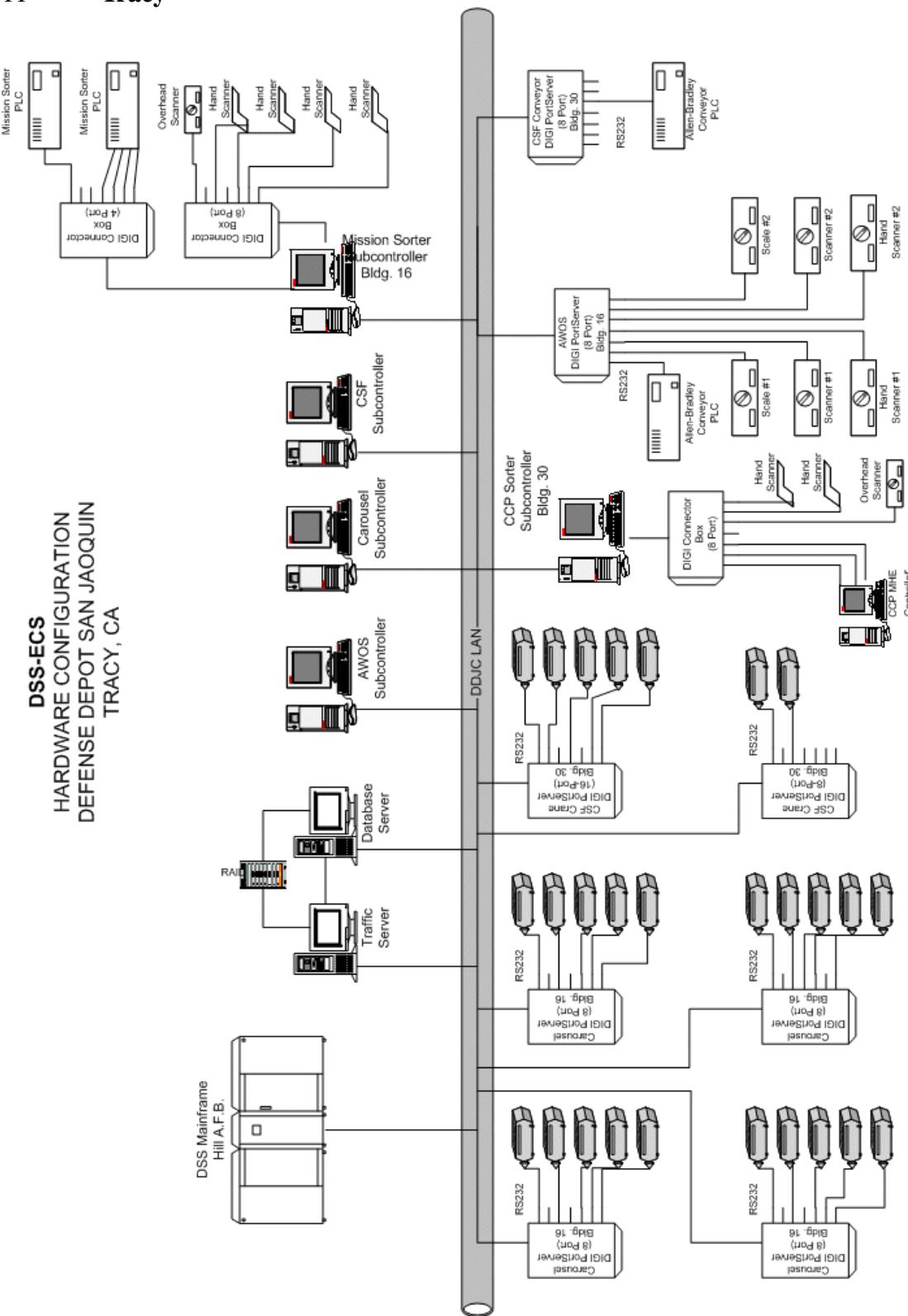


Figure 4.1.1.11-1 Hardware Configuration Defense Distribution Depot Tracy

4.1.1.11.1 **Tracy DSS**

4.1.1.11.1.1 **Tracy DSS Hardware**

4.1.1.11.1.1.1 **ECSJ2HWMFD1.0**

None

4.1.1.11.1.2 **Tracy DSS Software**

4.1.1.11.1.2.1 **ECSJ2SWMFD2.0**

ECSJ2SWMFD2.0 IBM MQSeries software. Will be installed with the DSS installation.

4.1.1.11.2 **Tracy Traffic Controller**

4.1.1.11.2.1 **Tracy Traffic Controller Hardware**

4.1.1.11.2.1.1 **ECSJ2HWTRC1.0**

ECSJ2HWTRC1.0 Traffic Controller Server; w/ dual Intel 500 MHz Pentium III Processor to include at a minimum:  
512K Cache  
256MB RAM (Expandable to 512 MB)  
1.44MB 3.5" Floppy Drive  
15" SVGA Color Monitor .28 Non-Interlaced  
PCI SVGA Video Card, 2MB RAM  
4.5 GB SCSI Disk Drive, Qty 2  
12/24 GB SCSI DAT Internal Tape Unit  
PCI 32-bit LAN Card (100Baset), Qty 2  
700-Watt Power Supply  
Tower Chassis  
Keyboard, Standard 101 Key  
4 PCI, 2 PCI/ISA  
PowerEdge Raid controller, Qty 2  
PCI 32-bit SCSI Caching Controller w/  
4MB RAM Cache  
8X Eight Speed Internal SCSI CD-ROM  
Microsoft Mouse  
1 Parallel, 2 Serial Ports  
Dell PowerEdge Scalable disk system w/ (4)  
4.5GB hard drives & redundant power supply  
V.34 33.6 Internal Modem ISA

ECSJ2HWTRC1.20	American Power Conversion Smart UPS (120v), 1400-Watt w/cable and software to support Windows NT, Qty 2
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#### 4.1.1.11.2.2 Tracy Traffic Controller Software

##### 4.1.1.11.2.2.1 ECSJ2SWTRC2.0

ECSJ2SWTRC2.0	Microsoft Windows 2000 Advanced Server Edition (CD-ROM w/20 Client licenses
ECSJ2SWTRC2.1	IBM MQSeries Version 5.2.1
ECSJ2SWTRC2.2	SEAGATE BackupExec for Windows NT (CD-ROM). Enterprise Edition. Current Release
ECSJ2SWTRC2.3	Oracle 9i for Windows 2000 w/ 20 user licenses w/ Oracle Failsafe
ECSJ2SWTRC2.4	Oracle Failsafe for Windows Version 3.3.1

#### 4.1.1.11.2.3 Tracy Traffic Controller Communication

##### 4.1.1.11.2.3.1 ECSJ2CMTRC3.0

ECSJ2CMTRC3.0	100/10 BaseT Hub (5) Ports; BLACKBOX Part # LH8028A-5
ECSJ2CMTRC3.1	RJ45 Cable 25-ft., Qty-2
ECSJ2CMTRC3.2	Analog Line; RJ11 Cable; Phone Wall Jack -> 33.6 Internal Modem

#### 4.1.1.11.3 Tracy Data Base Subcontroller

##### 4.1.1.11.3.1 Tracy Data Base Subcontroller Hardware

###### 4.1.1.11.3.1.1 ECSJ2HWDBA1.0

ECSJ2HWDBA1.0	Data Base Subcontroller; w/dual Intel 500MHz Pentium III Processor to include at a minimum: 512K Cache 256MB RAM (Expandable to 512 MB) 1.44MB 3.5" Floppy Drive 15" SVGA Color Monitor .28 Non-Interlaced
ECSJ2HWDBA1.1	PCI SVGA Video Card, 2MB RAM
ECSJ2HWDBA1.2	4.5 GB SCSI Disk Drive; Qty 2
ECSJ2HWDBA1.3	12/24 GB SCSI DAT Internal Tape Unit
ECSJ2HWDBA1.4	PCI 32-bit LAN Card (100BASET), Qty 2
ECSJ2HWDBA1.5	700-Watt Power Supply
ECSJ2HWDBA1.6	Tower Chassis
ECSJ2HWDBA1.7	
ECSJ2HWDBA1.8	
ECSJ2HWDBA1.9	
ECSJ2HWDBA1.10	

ECSJ2HWDBA1.11	Keyboard, Standard 101 Key
ECSJ2HWDBA1.12	4 PCI, 2 PCI/ISA
ECSJ2HWDBA1.13	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSJ2HWDBA1.14	8X Eight Speed Internal SCSI CD-ROM
ECSJ2HWDBA1.15	Microsoft Mouse
ECSJ2HWDBA1.16	1 Parallel, 2 Serial Ports
ECSJ2HWDBA1.17	V.34 33.6 Internal Modem ISA
ECSJ2HWDBA1.18	PowerEdge Raid controller; Qty 2

#### 4.1.1.11.3.2 **Tracy Data Base Subcontroller Software**

##### 4.1.1.11.3.2.1 **ECSJ2SWDBA2.0**

ECSJ2SWDBA2.0	Microsoft Windows 2000 Advanced Server Edition (CD-ROM) w/ 20 Client Licenses.
ECSJ2SWDBA2.1	IBM MQSeries Version 5.2.1
ECSJ2SWDBA2.2	Oracle 9i for Windows 2000 w/ 20 user licenses w/ Oracle Failsafe
ECSJ2SWDBA2.3	Oracle Failsafe for Windows Version 3.3.1

#### 4.1.1.11.3.3 **Tracy Data Base Subcontroller Communication**

##### 4.1.1.11.3.3.1 **ECSJ2CMDBA3.0**

ECSJ2CMDBA3.0	Analog Line
ECSJ2CMDBA3.1	RJ45 Cable 25-ft.
ECSJ2CMDBA3.2	ABC-25 Switch; DB25F Connectors

#### 4.1.1.11.4 **Tracy AWOS Subcontroller**

##### 4.1.1.11.4.1 **Tracy AWOS Subcontroller Hardware**

###### 4.1.1.11.4.1.1 **ECSJ2HWAWS1.0**

ECSJ2HWAWS1.0	AWOS Subcontroller; Intel 450MHz Pentium III Processor
ECSJ2HWAWS1.1	512K Cache
ECSJ2HWAWS1.2	128 MB RAM (Expandable to 512 MB)
ECSJ2HWAWS1.3	1.44MB 3.5" Floppy Drive
ECSJ2HWAWS1.4	PCI SVGA Video Card, 2 MB RAM
ECSJ2HWAWS1.5	4.5 GB SCSI Disk Drive
ECSJ2HWAWS1.6	PCI 32-bit LAN Card (100/10BASET)
ECSJ2HWAWS1.7	300-Watt Power Supply
ECSJ2HWAWS1.8	Tower Chassis
ECSJ2HWAWS1.9	Keyboard, Standard 101 Key
ECSJ2HWAWS1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared

ECSJ2HWAWS1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSJ2HWAWS1.12	8X Eight Speed Internal SCSI CD-ROM
ECSJ2HWAWS1.13	Microsoft Mouse
ECSJ2HWAWS1.14	1 Parallel, 2 Serial Ports
ECSJ2HWAWS1.15	15" SVGA Color Monitor .28 Non-Interlaced

#### 4.1.1.11.4.2 Tracy AWOS Subcontroller Software

##### 4.1.1.11.4.2.1 ECSJ2SWAWS2.0

ECSJ2SWAWS2.0	Microsoft Windows 2000 Professional, SP4
ECSJ2SWAWX2.1	Oracle 9i Client Software

#### 4.1.1.11.4.3 Tracy AWOS Subcontroller Communication

##### 4.1.1.11.4.3.1 ECSJ2CMAWS3.0

ECSJ2CMAWS3.0	RJ45 Cable 25-ft.; Ethernet Hub -> AWOS Subcontroller
ECSJ2CMAWS3.1	DIGI PortServer I (8 port); DIGI Part # 70000860
ECSJ2CMAWS3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 7; DIGI Part # 76000129

#### 4.1.1.11.5 Tracy CSF Subcontroller

##### 4.1.1.11.5.1 Tracy CSF Subcontroller Hardware

###### 4.1.1.11.5.1.1 ECSJ2HWCSF1.0

ECSJ2HWCSF1.0	CSF Subcontroller; Intel 450MHz Pentium III Processor
ECSJ2HWCSF1.1	512K Cache
ECSJ2HWCSF1.2	128 MB RAM (Expandable to 512 MB)
ECSJ2HWCSF1.3	1.44MB 3.5" Floppy Drive
ECSJ2HWCSF1.4	PCI SVGA Video Card, 2 MB RAM
ECSJ2HWCSF1.5	4.5 GB SCSI Disk Drive
ECSJ2HWCSF1.6	PCI 32-bit LAN Card (100/10BASET)
ECSJ2HWCSF1.7	300-Watt Power Supply
ECSJ2HWCSF1.8	Tower Chassis
ECSJ2HWCSF1.9	Keyboard, Standard 101 Key
ECSJ2HWCSF1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSJ2HWCSF1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSJ2HWCSF1.12	8X Eight Speed Internal SCSI CD-ROM

ECSJ2HWCSF1.13	Microsoft Mouse
ECSJ2HWCSF1.14	1 Parallel, 2 Serial Ports
ECSJ2HWCSF1.15	15" SVGA Color Monitor .28 Non-Interlaced

#### 4.1.1.11.5.2 Tracy CSF Subcontroller Software

##### 4.1.1.11.5.2.1 ECSJ2SWCSF2.0

ECSJ2SWCSF2.0	Microsoft Windows 2000 Professional, SP4
ECSJ2SWCSF2.1	Oracle 9i Client Software

#### 4.1.1.11.5.3 Tracy CSF Subcontroller Communication

##### 4.1.1.11.5.3.1 ECSJ2CMCSF3.0

ECSJ2CMCSF3.0	RJ45 Cable 25-ft.; Ethernet Hub -> CSF Subcontroller
ECSJ2CMCSF3.1	DIGI PortServer II (16 port); DIGI Part # 70000901
ECSJ2CMCSF3.3	DIGI Port Expansion Module (8 port); DIGI Part # 76000122
ECSJ2CMCSF3.4	DIGI PortServer I (8 port); DIGI Part # 70000860
ECSJ2CMCSF3.5	DIGI Cables; RJ45/DB25-male-24"; Qty 1; DIGI Part # 76000129

#### 4.1.1.11.6 Tracy Carousel Subcontroller

##### 4.1.1.11.6.1 Tracy Carousel Subcontroller Hardware

###### 4.1.1.11.6.1.1 ECSJ2HWCAR1.0

ECSJ2HWCAR1.0	Carousel Subcontroller; Intel 450MHz Pentium III Processor
ECSJ2HWCAR1.1	512K Cache
ECSJ2HWCAR1.2	128 MB RAM (Expandable to 512 MB)
ECSJ2HWCAR1.3	1.44MB 3.5" Floppy Drive
ECSJ2HWCAR1.4	PCI SVGA Video Card, 2 MB RAM
ECSJ2HWCAR1.5	4.5 GB SCSI Disk Drive
ECSJ2HWCAR1.6	PCI 32-bit LAN Card (100/10BASET)
ECSJ2HWCAR1.7	300-Watt Power Supply
ECSJ2HWCAR1.8	Tower Chassis
ECSJ2HWCAR1.9	Keyboard, Standard 101 Key
ECSJ2HWCAR1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSJ2HWCAR1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache

ECSJ2HWCAR1.12	8X Eight Speed Internal SCSI CD-ROM
ECSJ2HWCAR1.13	Microsoft Mouse
ECSJ2HWCAR1.14	1 Parallel, 2 Serial Ports
ECSJ2HWCAR1.15	15" SVGA Color Monitor .28 Non-Interlaced

4.1.1.11.6.2 **Tracy Carousel Subcontroller Software**

4.1.1.11.6.2.1 **ECSJ2SWCAR2.0**

ECSJ2SWCAR2.0	Microsoft Windows 2000 Professional, SP4
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4.1.1.11.6.3 **Tracy Carousel Subcontroller Communication**

4.1.1.11.6.3.1 **ECSJ2CMCAR3.0**

ECSJ2CMCAR3.0	RJ45 Cable 25-ft.; Ethernet Hub -> Carousel Subcontroller
ECSJ2CMCAR3.1	DIGI PortServer I (8 port); DIGI Part # 70000860; Qty 8
ECSJ2CMCAR3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 21; DIGI Part # 76000129

4.1.1.11.7 **Tracy Sorter Controller, Qty. 2**

4.1.1.11.7.1 **Tracy Sorter Controller Hardware**

4.1.1.11.7.1.1 **ECSJ2HWSRT1.0**

ECSJ2HWSRT1.0	Sorter Controller; Intel 2.4 GHz Pentium 4 Processor
ECSJ2HWSRT1.1	512K Cache
ECSJ2HWSRT1.2	1 GB RAM
ECSJ2HWSRT1.3	1.44MB 3.5" Floppy Drive
ECSJ2HWSRT1.4	32 MB, ATI, Radeon VE. VGA (one monitor compatible)
ECSJ2HWSRT1.5	36 GB Ultra 320 SCSI 15,000 RPM Disk Drive
ECSJ2HWSRT1.6	10/100/1000 Intel Gigabit NIC; Integrated
ECSJ2HWSRT1.7	250-Watt Power Supply
ECSJ2HWSRT1.8	Tower Chassis
ECSJ2HWSRT1.9	Keyboard, Standard 101 Key
ECSJ2HWSRT1.10	48X Speed Internal CD-ROM
ECSJ2HWSRT1.11	Microsoft Mouse
ECSJ2HWSRT1.12	1 Parallel, 2 Serial Ports
ECSJ2HWSRT1.13	15" SVGA Color Monitor .28 Non-Interlaced
ECSJ2HWSRT1.14	APC UPS (APC Part #BE500U), Qty. 2

#### 4.1.1.11.7.2 **Tracy Sorter Controller Software**

##### 4.1.1.11.7.2.1 **ECSJ2SWSRT2.0**

ECSJ2SWSRT2.0	Microsoft Windows 2000 Professional, SP4
ECSJ2SWSRT2.1	Oracle 9i for Windows 2000

#### 4.1.1.11.7.3 **Tracy Sorter Controller Communication**

##### 4.1.1.11.7.3.1 **ECSJ2CMSRT3.0**

ECSJ2CMSRT3.0	RJ45 Cable 25-ft.; Ethernet Hub -> Sorter Controller
ECSJ2CMSRT3.1	DIGI DB-9F/DB-9F 48-inch cable, (DIGI Part #77000642), Qty. 3
ECSJ2CMSRT3.2	DIGI AccelePort XP 8p, PCI, EIA-232 Adapter Board (DIGI Part #77000707)
ECSJ2CMSRT3.3	DIGI 8-Port DB9M DTE Connector Box (DIGI Part #76000561)
ECSJ2CMSRT3.4	DIGI ClassicBoard 8 – PCI (DIGI Part #77000578)
ECSJ2CMSRT3.5	DIGI ClassicBoard 4 – PCI (DIGI Part #77000576)
ECSJ2CMSRT3.6	DIGI 8-Port DB25M DTE Connector Box (DIGI Part #76000031)
ECSJ2CMSRT3.7	DIGI 4-Port DB25M DTE Connector Box (DIGI Part #76000030)
ECSJ2CMSRT3.8	Blackbox Serial Line Booster (Blackbox Part #ME001A), Qty. 2

4.1.1.12      Oklahoma City

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT OKLAHOMA CITY  
OKLAHOMA CITY, OK

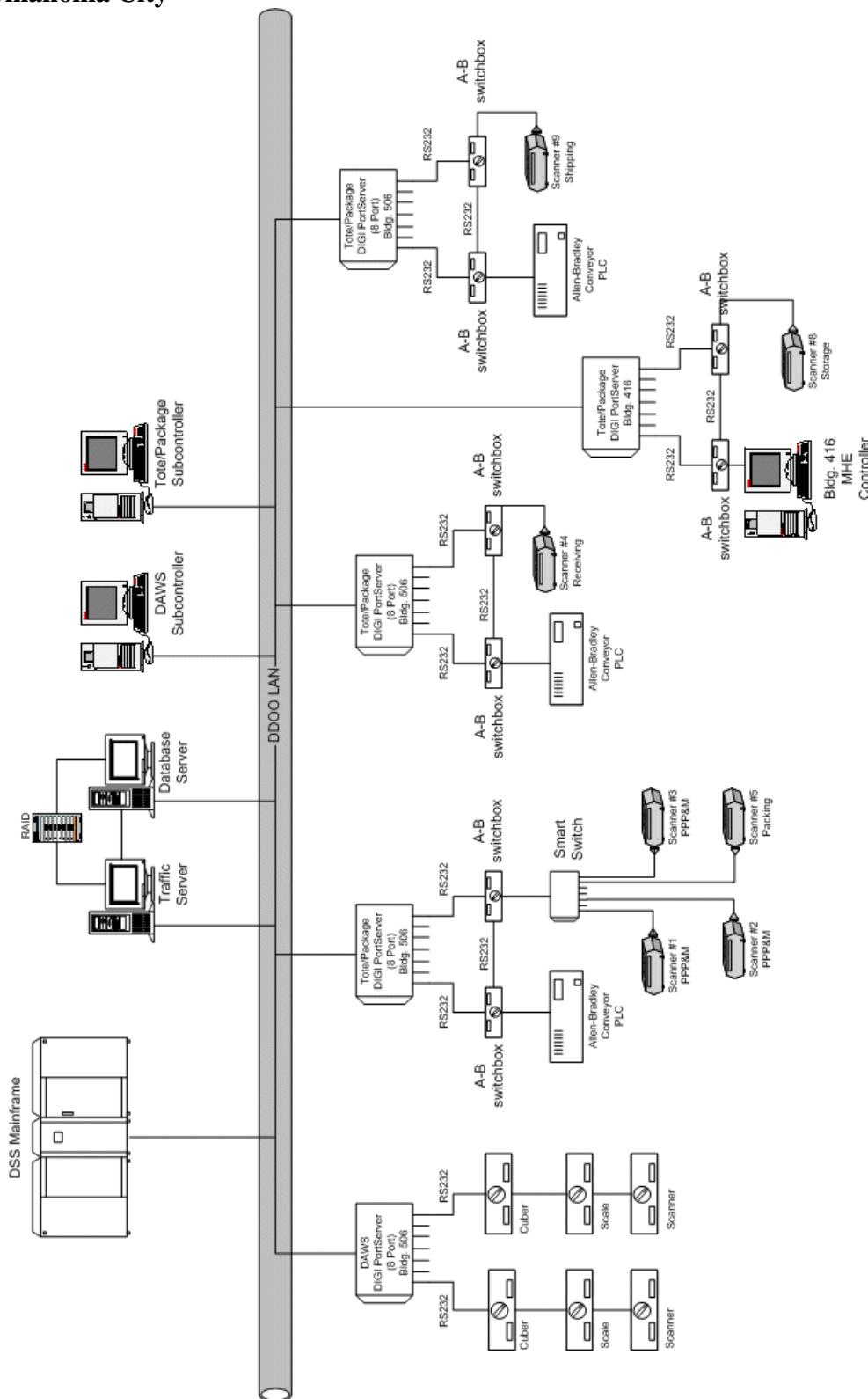


Figure 4.1.1.12-1 Hardware Configuration Defense Distribution Depot Oklahoma City

4.1.1.12.1 **Oklahoma City DSS**

4.1.1.12.1.1 **Oklahoma City DSS Software**

4.1.1.12.1.1.1 **ECSOOOSWMFD1.0**

ECSOOOSWMFD1.0 IBM MQSeries software. Will be installed with the LU 6.2 communication line.

4.1.1.12.2 **Oklahoma City Traffic Controller**

4.1.1.12.2.1 **Oklahoma City Traffic Controller Hardware**

4.1.1.12.2.1.1 **ECSOOHWTRC1.0**

ECSOOHWTRC1.0 Traffic Controller Server; w/ dual Intel 500 MHz Pentium III Processor to include at a minimum:  
512K Cache  
256MB RAM (Expandable to 512 MB)  
1.44MB 3.5" Floppy Drive  
15" SVGA Color Monitor .28 Non-Interlaced  
PCI SVGA Video Card, 2MB RAM  
4.5 GB SCSI Disk Drive, Qty 2  
12/24 GB SCSI DAT Internal Tape Unit  
PCI 32-bit LAN Card (100BASET), Qty 2  
700-Watt Power Supply  
Tower Chassis  
Keyboard, Standard 101 Key  
4 PCI, 2 PCI/ISA  
PowerEdge Raid controller, Qty 2  
PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache  
8X Eight Speed Internal SCSI CD-ROM  
Microsoft Mouse  
1 Parallel, 2 Serial Ports  
Dell PowerEdge Scalable disk system w/ (4) 4.5GB hard drives & redundant power supply  
V.34 33.6 Internal Modem ISA  
American Power Conversion Smart UPS (120v), 1400-Watt w/cable and software to support Windows NT, Qty 2

**4.1.1.12.2.2 Oklahoma City Traffic Controller Software**

**4.1.1.12.2.2.1 ECSOOSWTRC2.0**

ECSOOSWTRC2.0	Microsoft Windows 2000 Advanced Server Edition, w/SP4
ECSOOSWTRC2.1	IBM MQSeries Version 5.2.1
ECSOOSWTRC2.2	Oracle 9i for Windows Database
ECSOOSWTRC2.4	Oracle 9i Failsafe Version 3.3.2

**4.1.1.12.2.3 Oklahoma City Traffic Controller Communication**

**4.1.1.12.2.3.1 ECSOOCMTRC3.0**

ECSOOCMTRC3.0	100/10 BaseT Hub (5) Ports; BLACKBOX Part # LH8028A-5
ECSOOCMTRC3.1	RJ45 Cable 25-ft., Qty-2
ECSOOCMTRC3.2	RS-232 Cable 20-ft.; DB25M - DB25M
ECSOOCMTRC3.3	RS-232 Cable 6-ft.; HD26F - DB25M
ECSOOCMTRC3.4	Analog Line; RJ11 Cable; Phone Wall Jack -> 33.6 Internal Modem

**4.1.1.12.3 Oklahoma City Data Base Subcontroller**

**4.1.1.12.3.1 Oklahoma City Data Base Subcontroller Hardware**

**4.1.1.12.3.1.1 ECSOOHWDBA1.0**

ECSOOHWDBA1.0	Data Base Subcontroller; w/dual Intel 500MHz Pentium III Processor to include at a minimum:
ECSOOHWDBA1.1	512K Cache
ECSOOHWDBA1.2	256MB RAM (Expandable to 512 MB)
ECSOOHWDBA1.3	1.44MB 3.5" Floppy Drive
ECSOOHWDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSOOHWDBA1.5	PCI SVGA Video Card, 2MB RAM
ECSOOHWDBA1.6	4.5 GB SCSI Disk Drive; Qty 2
ECSOOHWDBA1.7	12/24 GB SCSI DAT Internal Tape Unit
ECSOOHWDBA1.8	PCI 32-bit LAN Card (100Baset), Qty 2
ECSOOHWDBA1.9	700-Watt Power Supply
ECSOOHWDBA1.10	Tower Chassis
ECSOOHWDBA1.11	Keyboard, Standard 101 Key
ECSOOHWDBA1.12	4 PCI, 2 PCI/ISA
ECSOOHWDBA1.13	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSOOHWDBA1.14	8X Eight Speed Internal SCSI CD-ROM
ECSOOHWDBA1.15	Microsoft Mouse

ECSOOHWDBA1.16	Attachmate Advanced ISCA Adapter Part # 145091
ECSOOHWDBA1.17	1 Parallel, 2 Serial Ports
ECSOOHWDBA1.18	V.34 33.6 Internal Modem ISA
ECSOOHWDBA1.19	PowerEdge Raid controller; Qty 2

4.1.1.12.3.2 **Oklahoma City Data Base Subcontroller Software**

4.1.1.12.3.2.1 **ECSOOSWDBA2.0**

ECSOOSWDBA2.0	Microsoft Windows 2000 Advanced Server Edition, w/SP4
ECSOOSWDBA2.1	IBM MQSeries Version 5.2.1
ECSOOSWDBA2.2	Oracle 9i for Windows Database

4.1.1.12.3.3 **Oklahoma City Data Base Subcontroller Communication**

4.1.1.12.3.3.1 **ECSOOCMDBA3.0**

ECSOOCMDBA3.0	Analog Line
ECSOOCMDBA3.1	RJ45 Cable 25-ft.
ECSOOCMDBA3.2	RS-232 Cable 6ft.; HD26F - DB25M
ECSOOCMDBA3.3	ABC-25 Switch; DB25F Connectors
ECSOOCMDBA3.4	RS-232 Cable 20-ft; DB25M – DB25M

4.1.1.12.4 **Oklahoma City AWOS/ECS Subcontroller**

4.1.1.12.4.1 **Oklahoma City AWOS/ECS Subcontroller Hardware**

4.1.1.12.4.1.1 **ECSOOHWAWS1.0**

ECSOOHWAWS1.0	AWOS/ECS Subcontroller; Intel 450MHz Pentium III
ECSOOHWAWS1.1	512K Cache
ECSOOHWAWS1.2	128 MB RAM (Expandable to 512 MB)
ECSOOHWAWS1.3	1.44MB 3.5" Floppy Drive
ECSOOHWAWS1.4	PCI SVGA Video Card, 2 MB RAM
ECSOOHWAWS1.5	4.5 GB SCSI Disk Drive
ECSOOHWAWS1.6	PCI 32-bit LAN Card (100/10BASET)
ECSOOHWAWS1.7	300-Watt Power Supply
ECSOOHWAWS1.8	Tower Chassis
ECSOOHWAWS1.9	Keyboard, Standard 101 Key
ECSOOHWAWS1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSOOHWAWS1.11	PCI 32-bit SCSI Caching Controller w/ 4MB RAM Cache
ECSOOHWAWS1.12	8X Eight Speed Internal SCSI CD-ROM
ECSOOHWAWS1.13	Microsoft Mouse

ECSOOHWAWS1.14	1 Parallel, 2 Serial Ports
ECSOOHWAWS1.15	15" SVGA Color Monitor .28 Non-Interlaced

**4.1.1.12.4.2 Oklahoma City AWOS/ECS Subcontroller Software**

**4.1.1.12.4.2.1 ECSOOSAWS2.0**

ECSOOSAWS2.0	Microsoft Windows 2000 Professional Edition, w/SP4
ECSOOSAWS2.1	Oracle 9i Client Software
ECSOOSAWS2.2	IBM MQSeries Client Version 5.2.1
ECSOOSAWS2.3	DIGI RealPort drivers

**4.1.1.12.4.3 Oklahoma City AWOS/ECS Subcontroller Communication**

**4.1.1.12.4.3.1 ECSOOCMAWS3.0**

ECSOOCMAWS3.0	RJ45 Cable 25-ft.; Ethernet Hub -> AWOS/ECS Subcontroller
ECSOOCMAWS3.1	DIGI PortServer I (8 port); Qty 1; DIGI Part # 70000860
ECSOOCMAWS3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 2; DIGI Part # 76000129

**4.1.1.12.5 Oklahoma City Tote/Package Conveyor Subcontroller**

**4.1.1.12.5.1 Oklahoma City Tote/Package Conveyor Subcontroller Hardware**

**4.1.1.12.5.1.1 ECSOOHWTPK1.0**

ECSOOHWTPK1.0	Tote/Package Conveyor Subcontroller; Intel 933 MHz Pentium III
ECSOOHWTPK1.1	512K Cache
ECSOOHWTPK1.2	256 MB RAM (Expandable to 512 MB)
ECSOOHWTPK1.3	1.44MB 3.5" Floppy Drive
ECSOOHWTPK1.4	PCI SVGA Video Card, 2 MB RAM
ECSOOHWTPK1.5	10 GB ATA/100 Hard Drive
ECSOOHWTPK1.6	PCI 32-bit integrated LAN Card (100/10BASET)
ECSOOHWTPK1.7	300-Watt Power Supply
ECSOOHWTPK1.8	Tower Chassis
ECSOOHWTPK1.9	Keyboard, Standard 101 Key
ECSOOHWTPK1.10	2 ISA, 3 PCI, 2 ISA/PCI Slot Shared
ECSOOHWTPK1.11	Intel 3D Graphics w/Direct AGP and 4MB Cache
ECSOOHWTPK1.12	20/48X Speed Internal CD-ROM
ECSOOHWTPK1.13	Microsoft Mouse

ECSOOHWTPK1.14	1 Parallel, 2 Serial Ports
ECSOOHWTPK1.15	15" SVGA Color Monitor .28 Non-Interlaced

**4.1.1.12.5.2 Oklahoma City Tote/Package Conveyor Subcontroller Software**

**4.1.1.12.5.2.1 ECSOOSWTPK2.0**

ECSOOSWTPK2.0	Microsoft Windows 2000 Professional Edition w/SP4
ECSOOSWTPK2.1	Oracle 9i Client Software
ECSOOSWTPK2.2	IBM MQSeries Client Version 5.2.1
ECSOOSWTPK2.3	DIGI RealPort drivers

**4.1.1.12.5.3 Oklahoma City Tote/Package Conveyor Subcontroller Communication**

**4.1.1.12.5.3.1 ECSOOCMTPK3.0**

ECSOOCMTPK3.0	RJ45 Cable 25-ft.; Ethernet Hub -> Tote/Package Conveyor Subcontroller
ECSOOCMTPK3.1	DIGI PortServer I (8 port); Qty 4; DIGI Part # 70000860
ECSOOCMTPK3.2	DIGI Cables; RJ45/DB25-male-24"; Qty 8; DIGI Part # 76000129
ECSOOCMTPK3.3	Blackbox ABC switches; Qty 8; Blackbox Part #SWL025A
ECSOOCMTPK3.4	DB25 Null Modem cables; Qty 12; various lengths

4.1.1.13      **DDMA RICHMOND**

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE MAPPING AGENCY  
RICHMOND, VA

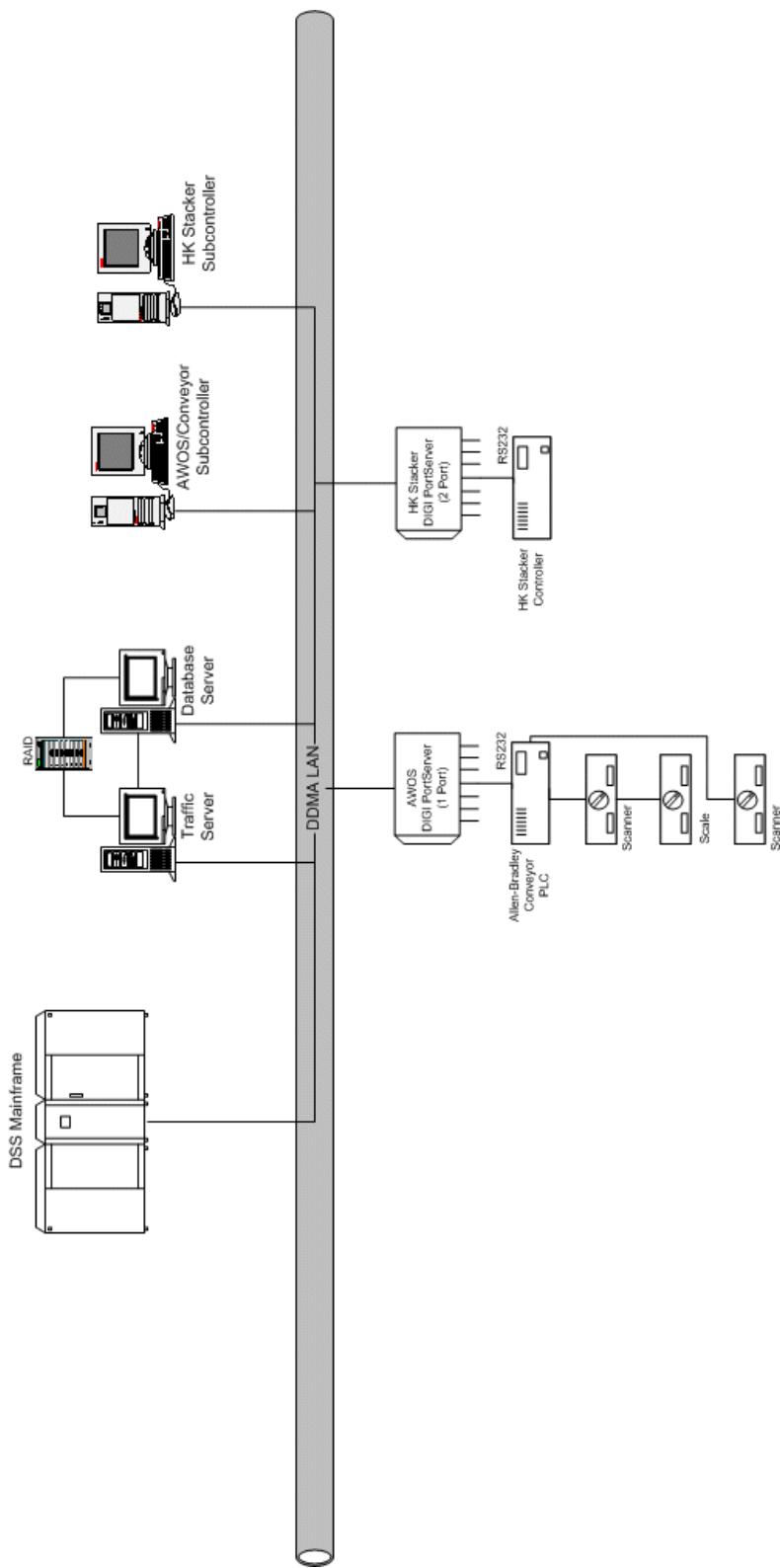


Figure 4.1.1.13-1 Hardware Configuration Defense Mapping Agency Richmond

4.1.1.13.1 **Mapping Agency DSS**

4.1.1.13.1.1 **Mapping Agency DSS Software**

4.1.1.13.1.1.1 **ECSMASWMFD1.0**

ECSMASWMFD1.0 IBM MQSeries. Will be installed with the DSS implementation.

4.1.1.13.2 **Mapping Agency Traffic Controller**

4.1.1.13.2.1 **Mapping Agency Traffic Controller Hardware**

4.1.1.13.2.1.1 **ECSMAHWTRC1.0**

ECSMAHWTRC1.0	Traffic Controller Server; Intel 1.13 GHz Pentium III Processor
ECSMAHWTRC1.1	512K Cache
ECSMAHWTRC1.2	512 MB RAM (Expandable to 1 GB)
ECSMAHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSMAHWTRC1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSMAHWTRC1.5	PCI SVGA Video Card, 2 MB RAM
ECSMAHWTRC1.6	18 GB SCSI Disk Drive, Quantity of 3
ECSMAHWTRC1.7	PV100T, DDS4, 20/40G, Internal Tape Unit
ECSMAHWTRC1.8	Intel PRO 100 LAN Card, 1 Imbedded & 1 Additional
ECSMAHWTRC1.9	700-Watt Power Supply
ECSMAHWTRC1.10	Tower Chassis
ECSMAHWTRC1.11	Keyboard, Standard 104 Key
ECSMAHWTRC1.12	4 PCI Slots, 2 ISA/PCI Slot Shared
ECSMAHWTRC1.13	PERC3-DI, 128MB RAID Controller, 2 Channels Internal Imbedded RAID (Primary Controller)
ECSMAHWTRC1.14	PERC3-DC, 128MB RAID Controller, 2 Channels External (Secondary Controller)
ECSMAHWTRC1.15	24X Speed IDE CD-ROM
ECSMAHWTRC1.16	Microsoft Mouse
ECSMAHWTRC1.17	1X6 Hot Pluggable Backplane
ECSMAHWTRC1.18	1 Parallel, 2 Serial Ports
ECSMAHWTRC1.19	Dell PowerVault 221S disk system w/ (4) 18.0 GB hard drives & redundant power supply
ECSMAHWTRC1.20	UPS (110v), 1400 Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

**4.1.1.13.2.2 Mapping Agency Traffic Controller Software**

**4.1.1.13.2.2.1 ECSMASWTRC2.0**

ECSMASWTRC2.0	Microsoft Windows 2000 Advanced Server
ECSMASWTRC2.1	IBM MQSeries Version 5.2.1
ECSMASWTRC2.2	Oracle 9i for Windows Database
ECSMASWTRC2.3	Oracle 9i FailSafe Version 3.3.1

**4.1.1.13.2.3 Mapping Agency Traffic Controller Communication**

**4.1.1.13.2.3.1 ECSMACMTRC3.0**

ECSMACMTRC3.0	RJ45 Cable 10-ft.; Traffic Controller -> Installation LAN
ECSMACMTRC3.1	RJ45 Cable 4-ft; Traffic Controller -> Database Controller (Crossover Cable)

**4.1.1.13.3 Mapping Agency Database Controller**

**4.1.1.13.3.1 Mapping Agency Database Controller Hardware**

**4.1.1.13.3.1.1 ECSMAHDBA1.0**

ECSMAHDBA1.0	Database Controller Server; Intel 1.13 GHz Pentium III Processor
ECSMAHDBA1.1	512K Cache
ECSMAHDBA1.2	512 MB RAM (Expandable to 1 GB)
ECSMAHDBA1.3	1.44MB 3.5" Floppy Drive
ECSMAHDBA1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSMAHDBA1.5	PCI SVGA Video Card, 2 MB RAM
ECSMAHDBA1.6	18 GB SCSI Disk Drive, Quantity of 3
ECSMAHDBA1.7	PV100T, DDS4, 20/40G, Internal Tape Unit
ECSMAHDBA1.8	Intel PRO 100 LAN Card, 1Imbedded & 1 Additional
ECSMAHDBA1.9	700-Watt Power Supply
ECSMAHDBA1.10	Tower Chassis
ECSMAHDBA1.11	Keyboard, Standard 104 Key
ECSMAHDBA1.12	4 PCI Slots, 2 ISA/PCI Slot Shared
ECSMAHDBA1.13	PERC3-DI, 128MB RAID Controller, 2 Channels Internal Imbedded RAID (Primary Controller)
ECSMAHDBA1.14	PERC3-DC, 128MB RAID Controller, 2 Channels External (Secondary Controller)
ECSMAHDBA1.15	24X Speed IDE CD-ROM

ECSMAHWDBA1.16	Microsoft Mouse
ECSMAHWDBA1.17	1X6 Hot Pluggable Backplane
ECSMAHWDBA1.18	1 Parallel, 2 Serial Ports
ECSMAHWDBA1.19	UPS (110v), 1400 Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

#### 4.1.1.13.3.2 **Mapping Agency Database Controller Software**

##### 4.1.1.13.3.2.1 **ECSMASWDBA2.0**

ECSMASWDBA2.0	Microsoft Windows 2000 Advanced Server
ECSMASWDBA2.1	IBM MQSeries Version 5.2.1
ECSMASWDBA2.2	Oracle 9i for Windows Database
ECSMASWDBA2.3	Oracle 9i FailSafe Version 3.3.1

#### 4.1.1.13.3.3 **Mapping Agency Database Controller Communications**

##### 4.1.1.13.3.3.1 **ECSMACMDBA3.0**

ECSMACMDBA3.0	RJ45 Cable 10-ft.; Database Controller -> Installation LAN
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#### 4.1.1.13.4 **Mapping Agency AWOS Subcontroller**

##### 4.1.1.13.4.1 **Mapping Agency AWOS Subcontroller Hardware**

###### 4.1.1.13.4.1.1 **ECSMAHWAWS1.0**

ECSMAHWAWS1.0	AWOS Subcontroller; 1.7 GHz Pentium 4 Processor
ECSMAHWAWS1.1	512K Cache
ECSMAHWAWS1.2	256 MB RAM (Expandable to 1 GB)
ECSMAHWAWS1.3	1.44MB 3.5" Floppy Drive
ECSMAHWAWS1.4	17" SVGA Color Monitor .28 Non-Interlaced
ECSMAHWAWS1.5	32 MB ATI Ultra 128, Integrated
ECSMAHWAWS1.6	40 GB EIDE Hard Disk Drive
ECSMAHWAWS1.7	10/100 3COM Internal NIC, Integrated
ECSMAHWAWS1.8	300-Watt Power Supply
ECSMAHWAWS1.9	Tower Chassis
ECSMAHWAWS1.10	Keyboard, Standard 104 Key
ECSMAHWAWS1.11	48X Speed Internal CD-ROM
ECSMAHWAWS1.12	Microsoft Mouse
ECSMAHWAWS1.13	1 Parallel, 2 Serial Ports

**4.1.1.13.4.2 Mapping Agency AWOS Subcontroller Software**

**4.1.1.13.4.2.1 ECSMASWAWS2.0**

ECSMASWAWS2.0	Microsoft Windows 2000 Professional Edition, SP4 (CD-ROM).
ECSMASWAWS2.1	DIGI RealPort software
ECSMASWAWS2.2	Oracle 9i Client Software
ECSMASWAWS2.3	IBM MQSeries Client Software Version 5.2.1

**4.1.1.13.4.3 Mapping Agency AWOS Subcontroller Communications**

**4.1.1.13.4.3.1 ECSMACMAWS3.0**

ECSMACMAWS3.0	RJ45 Cable 10-ft.; Installation LAN -> AWOS Subcontroller
ECSMACMAWS3.1	DIGI One RealPort (1 port); DIGI Part #70001750
ECSMACMAWS3.2	RJ45 Cable 10-ft.; Installation LAN -> DIGI PortServer TS 2
ECSMACMAWS3.3	DIGI Cable RJ45/DB25-male 24"; DIGI Part #76000129

**4.1.1.13.4.4 Mapping Agency HK STACKER Subcontroller Hardware**

**4.1.1.13.4.4.1 ECSMAHWSTK1.0**

ECSMAHWSTK1.0	HK STACKER Subcontroller; 2.66 GHz Pentium 4 Processor
ECSMAHWSTK1.1	512K Cache
ECSMAHWSTK1.2	1 GB RAM
ECSMAHWSTK1.3	1.44MB 3.5" Floppy Drive
ECSMAHWSTK1.4	15" SVGA Color Monitor .28 Non-Interlaced
ECSMAHWSTK1.5	Integrated Video Card
ECSMAHWSTK1.6	80 GB EIDE Hard Disk Drive
ECSMAHWSTK1.7	10/100/1000 Integrated Intel Gigabit NIC
ECSMAHWSTK1.8	Tower Chassis
ECSMAHWSTK1.9	Keyboard, Standard 104 Key
ECSMAHWSTK1.10	48X Speed Internal CD-ROM
ECSMAHWSTK1.11	Microsoft Mouse

**4.1.1.13.4.5 Mapping Agency HK STACKER Subcontroller Software**

**4.1.1.13.4.5.1 ECSMASWSTK2.0**

ECSMASWSTK2.0	Microsoft Windows 2000 Professional Edition, SP4 (CD-ROM).
ECSMASWSTK2.1	DIGI RealPort software
ECSMASWSTK2.2	Oracle 9i Client Software
ECSMASWSTK2.3	IBM MQSeries Client Software Version 5.2.1

**4.1.1.13.4.6 Mapping Agency HK STACKER Subcontroller Communications**

**4.1.1.13.4.6.1 ECSMACMSTK3.0**

ECSMACMSTK3.0	RJ45 Cable 10-ft.; Installation LAN -> HK STACKER Subcontroller
ECSMACMSTK3.1	DIGI PortServer TS 2 (2 port); DIGI Part #70001750
ECSMACMSTK3.2	RJ45 Cable 10-ft.; Installation LAN -> DIGI PortServer TS 2
ECSMACMSTK3.3	DIGI Cable RJ45/DB25-male 24"; DIGI Part #76000129

4.1.1.14 DDDE GERMERSHEIM GERMANY

**DSS-ECS**  
HARDWARE CONFIGURATION  
DEFENSE DEPOT EUROPE  
GERMERSHEIM, GERMANY

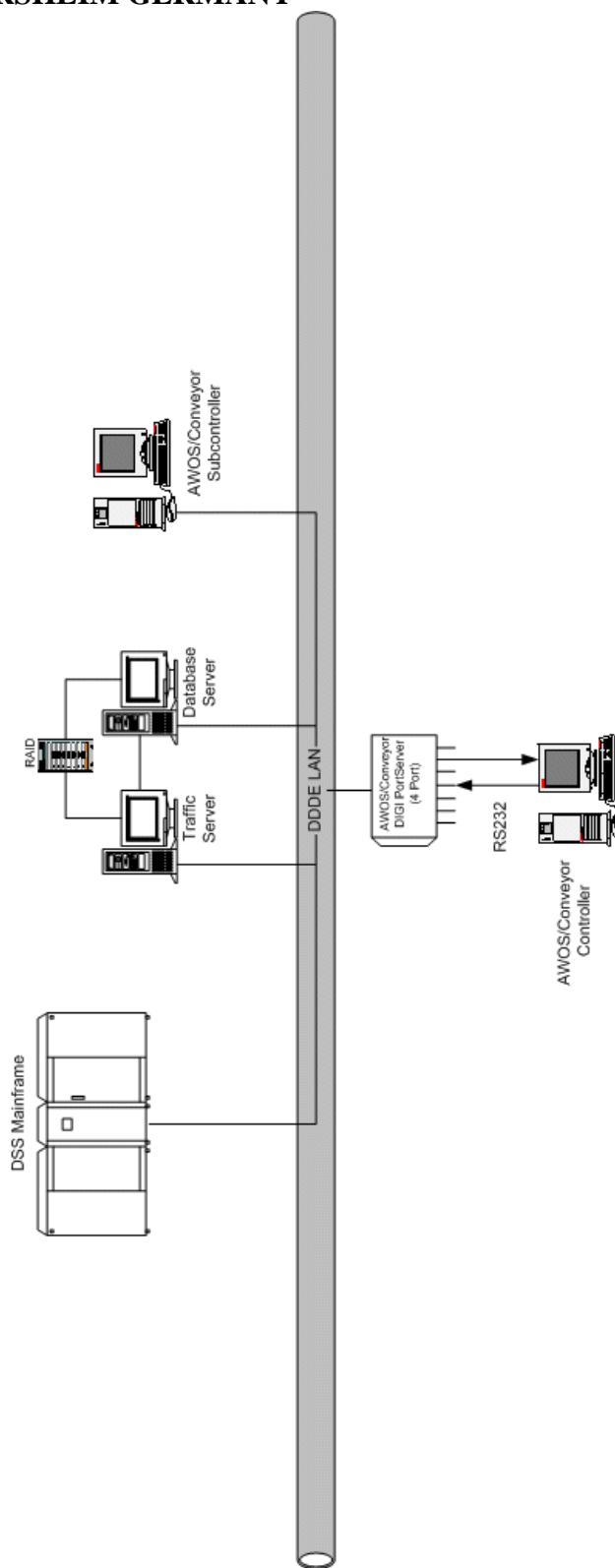


Figure 4.1.1.14.1 Hardware Configuration Defense Distribution Depot Europe, Germany

4.1.1.14.1 **Defense Depot Europe DSS**

4.1.1.14.1.1 **Defense Depot Europe DSS Software**

4.1.1.14.1.1.1 **ECSDESWMFD1.0**

ECSDESWMFD1.0 IBM MQSeries. Will be installed with the DSS implementation.

4.1.1.14.2 **Defense Depot Europe Traffic Controller**

4.1.1.14.2.1 **Defense Depot Europe Traffic Controller Hardware**

4.1.1.14.2.1.1 **ECSDEHWTRC1.0**

ECSDEHWTRC1.0	Traffic Controller Server; Intel 2.4 GHz Xeon Processor
ECSDEHWTRC1.1	512K Cache
ECSDEHWTRC1.2	1 GB RAM
ECSDEHWTRC1.3	1.44MB 3.5" Floppy Drive
ECSDEHWTRC1.4	15" SVGA Color Monitor
ECSDEHWTRC1.6	18 GB SCSI Disk Drive, Quantity of 3
ECSDEHWTRC1.7	Intel PRO 1000XT LAN Card, 1 Embedded & 1 Additional
ECSDEHWTRC1.8	700-Watt Power Supply
ECSDEHWTRC1.9	Tower Chassis
ECSDEHWTRC1.10	Keyboard, Standard 104 Key
ECSDEHWTRC1.11	PERC4-DI, 128MB RAID Controller, 2 Channels Internal Embedded RAID (Primary Controller)
ECSDEHWTRC1.12	PERC3-DC, 128MB RAID Controller, 2 Channels External (Secondary Controller)
ECSDEHWTRC1.13	24X Speed IDE CD-ROM
ECSDEHWTRC1.14	Microsoft Mouse
ECSDEHWTRC1.15	1X6 Hot Pluggable Backplane
ECSDEHWTRC1.16	Dell PowerVault 221S disk system w/ (4) 18.0 GB hard drives & redundant power supply
ECSDEHWTRC1.17	UPS (110v), 1500 Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

**4.1.1.14.2.2 Defense Depot Europe Traffic Controller Software**

**4.1.1.14.2.2.1 ECSDESWTRC2.0**

ECSDESWTRC2.0	Microsoft Windows 2000 Advanced Server
ECSDESWTRC2.1	IBM MQSeries Version 5.2.1
ECSDESWTRC2.2	Oracle 9i for Windows Database
ECSDESWTRC2.3	Oracle 9i FailSafe Version 3.3.1

**4.1.1.14.2.3 Defense Depot Europe Traffic Controller Communication**

**4.1.1.14.2.3.1 ECSDECMTRC3.0**

ECSDECMTRC3.0	RJ45 Cable 10-ft.; Traffic Controller -> Installation LAN
ECSDECMTRC3.1	RJ45 Cable 4-ft (Crossover Cable); Traffic Controller -> Database Controller

**4.1.1.14.3 Defense Depot Europe Database Controller**

**4.1.1.14.3.1 Defense Depot Europe Database Controller Hardware**

**4.1.1.14.3.1.1 ECSDEHWDBA1.0**

ECSDEHWDBA1.0	Database Controller Server; Intel 2.4 GHz Xeon Processor
ECSDEHWDBA1.1	512K Cache
ECSDEHWDBA1.2	1 GB RAM
ECSDEHWDBA1.3	1.44MB 3.5" Floppy Drive
ECSDEHWDBA1.4	15" SVGA Color Monitor
ECSDEHWDBA1.5	18 GB SCSI Disk Drive, Quantity of 3
ECSDEHWDBA1.6	Intel PRO 1000XT LAN Card, 1 Embedded & 1 Additional
ECSDEHWDBA1.7	700-Watt Power Supply
ECSDEHWDBA1.8	Tower Chassis
ECSDEHWDBA1.9	Keyboard, Standard 104 Key
ECSDEHWDBA1.10	PERC4-DI, 128MB RAID Controller, 2 Channels Internal Embedded RAID (Primary Controller)
ECSDEHWDBA1.11	PERC3-DC, 128MB RAID Controller, 2 Channels External (Secondary Controller)
ECSDEHWDBA1.12	24X Speed IDE CD-ROM
ECSDEHWDBA1.13	Microsoft Mouse
ECSDEHWDBA1.14	1X6 Hot Pluggable Backplane
ECSDEHWDBA1.15	UPS (110v), 1500 Watt w/ cable and software to support Windows 2000; DB9M - DB25M Adapter

**4.1.1.14.3.2 Defense Depot Europe Database Controller Software**

**4.1.1.14.3.2.1 ECSDESWDBA2.0**

ECSDESWDBA2.0	Microsoft Windows 2000 Advanced Server
ECSDESWDBA2.1	IBM MQSeries Version 5.2.1
ECSDESWDBA2.2	Oracle 9i for Windows Database
ECSDESWDBA2.3	Oracle 9i FailSafe Version 3.3.1

**4.1.1.14.3.3 Defense Depot Europe Database Controller Communications**

**4.1.1.14.3.3.1 ECSDECMDBA3.0**

ECSDECMDBA3.0	RJ45 Cable 10-ft.; Database Controller -> Installation LAN
---------------	--

**4.1.1.14.4 Defense Depot Europe AWOS/Conveyor Subcontroller**

**4.1.1.14.4.1 Defense Depot Europe AWOS/Conveyor Subcontroller Hardware**

**4.1.1.14.4.1.1 ECSDEHWAWS1.0**

ECSDEHWAWS1.0	AWOS Subcontroller; 2.4 GHz Pentium 4 Processor
ECSDEHWAWS1.1	512K Cache
ECSDEHWAWS1.2	1 GB RAM
ECSDEHWAWS1.3	1.44MB 3.5" Floppy Drive
ECSDEHWAWS1.4	15" SVGA Color Monitor
ECSDEHWAWS1.5	Integrated DVMT Video
ECSDEHWAWS1.6	80 GB EIDE Hard Disk Drive
ECSDEHWAWS1.7	10/100/1000 Intel Gigabit NIC, Integrated
ECSDEHWAWS1.8	300-Watt Power Supply
ECSDEHWAWS1.9	Tower Chassis
ECSDEHWAWS1.10	Keyboard, Standard 104 Key
ECSDEHWAWS1.11	48X Speed Internal CD-ROM
ECSDEHWAWS1.12	Microsoft Mouse
ECSDEHWAWS1.13	1 Parallel, 2 Serial Ports

**4.1.1.14.4.2 Defense Depot Europe AWOS/Conveyor Subcontroller Software**

**4.1.1.14.4.2.1 ECSDESWAWS2.0**

ECSDESWAWS2.0	Microsoft Windows 2000 Professional Edition, SP4 (CD-ROM).
ECSDESWAWS2.1	DIGI RealPort software
ECSDESWAWS2.2	Oracle 9i Client Software
ECSDESWAWS2.3	IBM MQSeries Client Software Version 5.2.1

#### 4.1.1.14.4.3 Defense Depot Europe AWOS/Conveyor Subcontroller Communications

##### 4.1.1.14.4.3.1 ECSDECMAWS3.0

ECSDECMAWS3.0	RJ45 Cable 10-ft.; Installation LAN -> AWOS Subcontroller
ECSDECMAWS3.1	DIGI PortServer TS 4 (4 port); DIGI Part #70001751
ECSDECMAWS3.2	RJ45 Cable 10-ft.; Installation LAN -> DIGI PortServer TS 4
ECSDECMAWS3.3	DIGI Cable RJ45/DB9-female 48"; Qty. 4; DIGI Part #76000645

#### 4.1.2 Software

##### 4.1.2.1 ECS Software

The following subparagraphs define the ECS software in terms of object-oriented class and object diagrams and specifications. These objects and classes were derived from the data flow diagrams and process narratives contained in the Software Requirements Specification. The diagrams and specifications are created in specific object-oriented notation. The guidance for this notation was provided in the ECS System Design Methodology.

##### 4.1.2.2 ECS Objects

The following sections define all objects that will compose the ECS software system. Objects are the implementation (executable) elements of an object-oriented system. These objects are represented by an object diagram illustrating the object icon and its relationship to all other objects in the system. Objects can access other objects via calls to each other's functions. Following the diagram is a specification providing a description of the object, the class it is derived from, and a list of methods (functions) and attributes (variables) that make up the object.

##### 4.1.2.3 ECS Classes

The following sections define all classes that will compose the ECS software system. These classes represent a template or type from which objects can be created. They are illustrated in a diagram of class icons. Following the diagram is a specification listing a description of the class and its elements.

5.0            **NOTES**

None.

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 0.....04/16/01

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE TABLE OF CONTENTS AND  
PAGES 4-29 THROUGH 4-46 CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 0	Changed Revision 7/Change 0 and the date.
i -xiii	7/Change 0	Updated the table of contents to reflect the updates in the document.
4-29 through 4-46	7/Change 0	Updated Norfolk hardware diagrams and software descriptions for SCR DSS-RE0-088.

## LIST OF EFFECTIVE PAGES

### System/Subsystem Detail Description

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Revision 7/Change 1.....06/08/01

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE TABLE OF CONTENTS AND PAGES 4-16 THROUGH 4-20 CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 1	Changed Revision 7/Change 1 and the date.
i -xiii	7/Change 1	Updated the table of contents to reflect the updates in the document.
1-1 through 1-2	7/Change 1	Updated paragraph 1.1 - Identification, bullet list of automated facilities, and paragraph 1.2 - System Overview, using standard text from System/Subsystem Specification (SSS) document for consistency.
4-1	7/Change 1	Added Red River reference to paragraph 4.1.1 - ECS HWCI listing.
4-16 through 4-20	7/Change 1	Updated DDHU hardware diagrams and software descriptions for SCR DSS-NC0-158.

## LIST OF EFFECTIVE PAGES

### System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 2.....12/14/01

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE TABLE OF CONTENTS AND PAGES 4-2 THROUGH 4-135 CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 2	Changed Revision 7/Change 2 and the date.
i -xiii	7/Change 2	Updated the table of contents to reflect the updates in the document.
4-2	7/Change 2	Updated section 4.1.1 to include Tote/Package Conveyor Subcontroller.
4-82	7/Change 2	Updated Figure 4.1.1.8-4 New Cumberland AWOS hardware diagram for PTR 106486
4-91 through 4-93	7/Change 2	Updated for PTR# 106486.
4-127 through 4-135	7/Change 2	Updated section 4.1.1.12 Oklahoma City for SCR# DSS-OOO-106.

## LIST OF EFFECTIVE PAGES

### System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 3.....05/22/02

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE TABLE OF CONTENTS AND PAGES 4-2 THROUGH 4-135 CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 3	Changed Revision/Change numbers and the date.
i -xiii	7/Change 3	Updated the table of contents to reflect the updates in the document.
4-2	7/Change 3	Updated section 4.1.1 to include Tote/Package Conveyor Subcontroller.
4-33 through 4-40	7/Change 3	Updated eight existing Norfolk Hardware diagrams.
4-41 through 4-42	7/Change 3	Added two additional Norfolk Hardware diagrams.
4-43 through 4-54	7/Change 3	Added sections 4.1.1.4.8 through 4.1.1.4.9.3.1 to Norfolk data. In association SCR DSS RE2-016.

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 4.....07/12/02

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 4	Changed Revision/Change numbers and the date.
i -xiii	7/Change 4	Updated the table of contents to reflect the updates in the document.
2-1	7/Change 4	Updated all of section 2.0 Referenced Document.
4-55	7/Change 4	Updated section 4.1.1.5 to include PS Tote Conveyor Subcontroller in association with SCR # DSS-PW0-131.

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 5.....09/20/02

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THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 5	Changed Revision/Change numbers and the date.
4-55 thru 4-65	7/Change 5	Updated section 4.1.1.5 diagrams and text in association with SCR# DSS-RE2-107 and DSS-NC0-104

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 6.....10/28/02

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT CONSISTING OF  
THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 6	Changed Revision/Change numbers and the date.
4-20 thru 4-25	7/Change 6	Updated section 4.1.1.2, Hill diagrams and text in association with SCR# DSS-RE2-021

## LIST OF EFFECTIVE PAGES

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 7.....11/25/02

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 7	Changed Revision/Change numbers and the date.
4-3 thru 4-12	7/Change 7	Updated section 4.1.1.1 through 4.1.1.1.6.3.1, DDDC hardware diagrams and text. Changes in association with SCR# DSS-DD0-996
4-22 thru 4-26	7/Change 7	Updated sections 4.1.1.3 through 4.1.1.3.3.3.1, DDJF hardware diagrams and text. Changes in association with SCR# DSS-NC0-104
4-84 thru 4-88	7/Change 7	Updated sections 4.1.1.8 through 4.1.1.8.1.1, DDSP hardware diagrams. Changes in association with SCR# DSS-NC0-104
4-107 thru 4-108	7/Change 7	Updated Active Item sections 4.1.1.8.23 through 4.1.1.8.23.3.1, text. Changes in association with SCR# DSS-NC0-104

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 8.....02/05/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 8	Changed Revision/Change numbers and the date.
i-xx	7/Change 8	Updated the table of contents to reflect the updates in the document.
4-3 thru 4-12	7/Change 8	Updated section 4.1.1.1 through 4.1.1.1.6.3.1, DDDC hardware diagrams and text. Changes in association with SCR# DSS-DD0-996

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 9.....04/25/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 9	Changed Revision/Change numbers and the date.
i-xx	7/Change 9	Updated the table of contents to reflect the updates in the document.
4-128 thru 4-141	7/Change 9	Updated section 4.1.1.12 through 4.1.1.12.7.3.1, DDJC hardware diagrams and text. Changes in association with SCR# DSS-JC3-008

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 10.....05/09/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 10	Changed Revision/Change numbers and the date.
i-xx	7/Change 10	Updated the table of contents to reflect the updates in the document.
4-88 thru 4-100	7/Change 10	Removed duplicate data for New Cumberland hardware that was overlooked in Revision 7/Change 7.

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 11.....05/27/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 11	Changed Revision/Change numbers and the date.
i-xx	7/Change 11	Updated the table of contents to reflect the updates in the document.
4-128 thru 4-141	7/Change 11	Updated section 4.1.1.12 through 4.1.1.12.7.3.1, DDJC hardware diagrams and text. Changes are in association with SCR# DSS-JC3-008

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 12.....06/20/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 12	Changed Revision/Change numbers and the date.
i-xx	7/Change 12	Updated the table of contents to reflect the updates in the document.
4-118 thru 4-131	7/Change 12	Updated section 4.1.1.12 through 4.1.1.12.7.3.1, DDJC hardware diagrams and text. Changes are in association with SCR# DSS-RE3-089.

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 13.....07/1503

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 13	Changed Revision/Change numbers and the date.
i-xx	7/Change 13	Updated the table of contents to reflect the updates in the document.
1-2	7/Change 13	Updated section paragraph 1.2 to include Stackman and Mission/CCP Sorter references.

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 14.....08/29/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 14	Changed Revision/Change numbers and the date.
i-xx	7/Change 14	Updated the table of contents to reflect the updates in the document.
1-1 thru 1-2	7/Change 14	Added references for changes in association with SCR# DSS-MA2-116.
4-148 thru 4-155	7/Change 14	Added section 4.1.1.15 to include DDMA additions in association with SCR# DSS-MA2-116

**LIST OF EFFECTIVE PAGES**

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 15.....10/22/03

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 15	Changed Revision/Change numbers and the date.
i-xix	7/Change 15	Updated the table of contents to reflect the updates in the document.
1-1 thru 1-3	7/Change 15	Added references for changes in association with SCR# DSS-RE2-132.
4-155 thru 4-161	7/Change 15	Added section 4.1.1.16 to include DDMA additions in association with SCR# DSS-RE2-132

## LIST OF EFFECTIVE PAGES

System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 16.....04/14/04

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 16	Changed Revision/Change numbers and the date.
i-xix	7/Change 16	Updated the table of contents to reflect the updates in the document.
1-1 thru 1-3	7/Change 16	Added references for changes in association with SCR# DSS-RE2-132.
4-3 thru 4-9	7/Change 16	Updated hardware diagram and data for DDDC changes in association with SCR# DSS-SP3-106. Changed from PowerPoint diagrams to Visio grouping all diagrams for DDDC into one diagram.

## LIST OF EFFECTIVE PAGES

### System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 17.....07/01/04

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 17	Changed Revision/Change numbers and the date.
i-xviii	7/Change 17	Updated the table of contents to reflect the updates in the document.
4-3 thru 4-114	7/Change 17	Changed from PowerPoint diagrams to Visio grouping all diagrams into one flow chart for all sites excluding Warner Robins and Mechanicsburg.
4-43 thru 4-56	7/Change 17	Removed section 4.1.1.6 through 4.1.1.6.8.3.1 Mechanicsburg Hardware Configuration data. To view this data see Revision 7/Change 16
4-98 thru 4-104	7/Change 17	Removed section 4.1.1.14 through 4.1.1.14.4.3.1 Warner Robins Hardware Configuration data. To view this data see Revision 7/Change 16

**LIST OF EFFECTIVE PAGES**

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Date of issue for revision and changed document is:

Revision 7/Change 18.....08/20/04

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 18	Changed Revision/Change numbers and the date.
i-xv	7/Change 18	Updated the table of contents to reflect the updates in the document.
4-84 thru 4-89	7/Change 18	Replaced DDMA diagram and updated text changes in association with SCR# DSS-RE4-037.

## LIST OF EFFECTIVE PAGES

### System/Subsystem Detail Description

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Date of issue for revision and changed document is:

Revision 7/Change 19.....09/16/04

PAGES CHANGED IN THIS REVISION ARE THE ENTIRE DOCUMENT, CONSISTING OF THE FOLLOWING CHANGES

PAGE NO.	REV. NO.	REASON FOR CHANGE
COVER	7/Change 19	Changed Revision/Change numbers and the date.
i-xv	7/Change 19	Updated the table of contents to reflect the updates in the document.
1-1	7/Change 19	Updated section 1.1.1.
4-30 through 4-36	7/Change 19	Updated sections 4.1.1.5.1 through 4.1.1.5.5.3.1 for Puget Sound.
4-37 through 4-41	7/Change 19	Updated sections 4.1.1.6.1 through 4.1.1.6.4.3.1 for Richmond.
4-54 through 4-57	7/Change 19	Updated sections 4.1.1.8.1 through 4.1.1.8.3.3.1 for Pearl Harbor.
4-58 through 4-61	7/Change 19	Updated sections 4.1.1.9.1 through 4.1.1.9.3.3.1 for Guam.
4-62 through 4-65	7/Change 19	Updated sections 4.1.1.10.1 through 4.1.1.10.3.3.1 for Yokuska.
4-74 through 4-79	7/Change 19	Updated sections 4.1.1.12.1 through 4.1.1.12.5.3.1 for Oklahoma.
4-80	7/Change 19	Corrections to Revision 7/Change 18 DDJF hardware diagram was incorrectly displayed on page 4.80. DDMA hardware diagram is now correctly displayed on page 4-80.
4-1 through 4-89	7/Change 19	Updated all references for 9i Oracle in all sections beginning with 4.1.1.1 through 4.1.1.14.4.2.1

PAGE NO.	REV. NO.	REASON FOR CHANGE
SSDD Diagrams	7/Change 19	The Diagrams for the SSDD in Visio formatted were not edited with this revision. SSDD Diagrams in Visio format were not checked out with this revision.