

New as of 2024-07-02:

This matrix lists the VTD_EXECs that may apply to your machine based on its code version. Use this matrix to obtain a list of VTD_EXECs you should look at. You still need to look at each VTD_EXEC in the list and use its key to determine if it applies to your environment.

Examples:
Some VTD_EXECs only apply to machines in a GRID configuration.
Some VTD_EXECs only apply when upgrading code or making a configuration change.
Some VTD_EXECs only apply when you have a specific 3956 disk cache or a specific hardware feature.

New as of 2024-07-02: Added additional support for some execs

New as of 2024-06-26:	Updated VTD_EXEC.182 to v1.37 for all TS7700 code levels
	Updated VTD_EXEC.261 to v1.13 for 8.52.102.13, 8.52.103.23, 8.53.063, 8.53.1.21, 8.54.0.68
	Added VTD_EXEC.404 to v1.00 for 8.54.1.27
	Added VTD_EXEC.406 to v1.00 for 8.54.0.68, 8.54.1.27
	Added VTD_EXEC.407 to v1.04 for 8.54.1.27
	Updated VTD_EXEC.903 to v1.16 for 8.53.0.63, 8.53.1.21
	Updated VTD_EXEC.904 to v1.04 for 8.54.0.68
New as of 2024-06-11:	Added VTD_EXEC.402 to v1.00 for 8.54.1.27
	Added NOTE: VTD_EXEC.182v1.36 should be use regarding the code level
New as of 2024-05-10:	Updated VTD_EXEC.103 to v2.04 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21, 8.54.0.68, 8.54.1.27
New as of 2024-04-30:	Updated VTD_EXEC.279 to v1.18 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21, 8.54.0.68, 8.54.1.27
New as of 2024-04-08:	Updated VTD_EXEC.269 to v2.07 for 8.52.103.23, 8.53.0.63, 8.53.1.21, 8.54.0.68
	Updated VTD_EXEC.279 to v1.17 for 8.53.0.63, 8.53.1.21, 8.54.0.68, 8.54.1.27
	Added VTD_EXEC.401 to v1.01 for 8.54.0.68
New as of 2024-03-18:	Added R5.4 PGA1 (8.54.1.27)
New as of 2024-01-29	Updated VTD_EXEC.269 to v2.05 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21, 8.54.0.68
New as of 2023-12-11	Updated VTD_EXEC.103 to v2.02 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21, 8.54.0.68
	Released VTD_EXEC.399 v1.01 for 8.52.102.13, 8.52.103.23
	Updated VTD_EXEC.901 to v1.19 for 8.52.102.13, 8.52.103.23
	Updated VTD_EXEC.903 to v1.10 for 8.53.0.63, 8.53.1.21
New as of 2023-10-30	Added R5.4 GA (8.54.0.68)
	Added VTD_EXEC.080 to v1.37 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21, 8.54.0.68
	Updated VTD_EXEC.279 to v1.15 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
	Updated VTD_EXEC.389 to v1.07 for 8.53.0.63, 8.53.1.21, 8.54.0.68
	Added VTD_EXEC.400 to v1.00 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
New as of 2023-10-12	Updated VTD_EXEC.103 to v1.99 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
New as of 2023-09-14	Updated VTD_EXEC.182 to v1.36 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
	Released VTD_EXEC.398 v1.00 for 8.52.102.13, 8.53.0.63
	Updated VTD_EXEC.901 to v1.14 for 8.52.102.13, 8.52.103.23
	Updated VTD_EXEC.903 to v1.07 for 8.53.0.63, 8.53.1.21
New as of 2023-07-31	Updated VTD_EXEC.188 to v1.55 for 8.52.102.13, 8.53.0.63
	Updated VTD_EXEC.269 to v2.04 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
New as of 2023-07-05	Updated VTD_EXEC.103 to v1.95 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
	Updated VTD_EXEC.347 to v2.04 for 8.52.102.13, 8.52.103.23, 8.53.0.63, 8.53.1.21
New as of 2023-05-30	Updated VTD_EXEC.269 to v2.03 for 8.51.2.12, 8.52.100.32, 8.52.101.12, 8.52.102.13, 8.52.103.23, 8.52.200.111, 8.53.0.63, 8.53.1.21
	Updated VTD_EXEC.279 to v1.13 for 8.51.2.12, 8.52.100.32, 8.52.101.12, 8.52.102.13, 8.52.103.23, 8.52.200.111, 8.53.0.63, 8.53.1.21
New as of 2023-05-02	Updated VTD_EXEC.182 to v1.32 for 8.51.2.12, 8.52.100.32, 8.52.101.12, 8.52.102.13, 8.52.103.23, 8.52.200.111, 8.53.0.63, 8.53.1.21
	Updated VTD_EXEC.900 to v1.14 for 8.51.2.12
	Updated VTD_EXEC.901 to v1.11 for 8.52.100.32, 8.52.101.12, 8.52.102.13, 8.52.103.23
	Updated VTD_EXEC.903 to v1.04 for 8.53.0.63, 8.53.1.21

Hydra Code Name	Code Version	Execs
Hydra 5.4 PGA1	8.54.1.27 (see note 1)	103_v2.04(all) 182_v1.37(join/merge/ClusterRenumber) 279_v1.18(all) 389_v1.07(preLoad) 402_v1.00(proxy) 404_v1.00(cloud) 406_v1.00(security) 407_v1.04(VED) 904_v1.04(all)
Hydra 5.4 GA	8.54.0.68 (see note 1, 2)	080_v1.37(frameMES) 103_v2.04(all) 182_v1.37(join/merge/ClusterRenumber) 261_v1.13(VED/FrameMES) 269_v2.07(security) 279_v1.18(all) 389_v1.07(preLoad) 401_v1.01 406_v1.00(security) 904_v1.04(all)
	Note 1:	This code level is supported on model VED only.
	Note 2:	vtd_exec.389 v1.07 or above must be used prior to TS7770 (3957-VED/3948-VED) code update to 5.4. See: https://ts-ent-wiki.wdc1a.cirrus.ibm.com/en/vtd_execs/vtd_execs_index
Keys		
16GbFICON	This vtd_exec must be installed on all TS7700 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	
8GbFICON	This vtd_exec must be installed on all TS7700 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
actPrep	This vtd_exec must be applied a couple of days ahead of planned code update to allow the possibly needed fix to be effective when actual code load is scheduled.	
all	This vtd_exec must be installed on all machines	
BattDate	This vtd_exec must be installed on all TS7770 (3957-VED) with 3956-CSB where the backend disk cache battery VPD contains improper date stamp	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
cloud	This vtd_exec must be installed on all TS7700 clusters with Cloud Attachment	
ClusterRenumber	This vtd_exec must be installed prior to starting a cluster renumber.	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
CSA	This vtd_exec must be installed on all TS7700 clusters with CSA cache.	
CSB	This vtd_exec must be installed on all TS7700 clusters with CSB cache.	
DS8k	This vtd_exec must be installed on all TS7700 clusters with DS8000 Object Store	
fc5282remove	This vtd_exec must be installed to remove FC 5282 from a TS7770 when the feature code is currently installed to allow FC 5283	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
preLoad	This exec must be installed on system with R5.1 or R5.2 before upgrading to 5.3 GA or above	
SDT	This vtd_exec must be installed on all TS7700 clusters with Secure Data Transfer	
security	This vtd_exec resolves a security vulnerability.	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
TPF	This vtd_exec applies to machines in TPF software environment	
TS1160encr	This vtd_exec must be installed on all TS7700 clusters with TS1160 and encryption enabled	
unjoin	This vtd_exec must be installed prior to starting a grid unjoin.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
VED	This vtd_exec must be installed on all model VED clusters.	

Hydra Code Name	Code Version	Execs
Hydra 5.3 PGA1	8.53.1.21 (see note 1, 2)	080_v1.37(frameMES) 103_v2.04(all) 182_v1.37(join/merge/ClusterRenumber) 261_v1.13(VED/FrameMES) 269_v2.07(security) 279_v1.18(all) 347_v2.04(VED) 389_v1.07(preLoad) 400_v1.00(cloud) 903_v1.16(all)
Hydra 5.3 GA	8.53.0.63 (see note 1, 2)	080_v1.37(frameMES) 103_v2.04(all) 182_v1.37(join/merge/ClusterRenumber) 188_v1.55(all) 261_v1.13(VED/FrameMES) 269_v2.07(security) 279_v1.18(all) 347_v2.04(VED) 389_v1.07(preLoad) 391_v1.00(actFinis) 395_v1.00(TS1160encr) 396_v1.00(VED/BattDate) 398_v1.00(all) 400_v1.00(cloud) 903_v1.16(all)
	Note 1:	This code level is supported on model VED only.
	Note 2:	vtd_exec.389 v1.04 or above must be used prior to TS7770 (3957-VED/3948-VED) code update to 5.3. See: https://ts-ent-wiki.wdc1a.cirrus.ibm.com/en/vtd_execs/vtd_execs_index
Keys		
16GbFICON	This vtd_exec must be installed on all TS7700 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	
8GbFICON	This vtd_exec must be installed on all TS7700 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
actPrep	This vtd_exec must be applied a couple of days ahead of planned code update to allow the possibly needed fix to be effective when actual code load is scheduled.	
all	This vtd_exec must be installed on all machines	
BattDate	This vtd_exec must be installed on all TS7770 (3957-VED) with 3956-CSB where the backend disk cache battery VPD contains improper date stamp	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
cloud	This vtd_exec must be installed on all TS7700 clusters with Cloud Attachment	
ClusterRenumber	This vtd_exec must be installed prior to starting a cluster renumber.	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
CSA	This vtd_exec must be installed on all TS7700 clusters with CSA cache.	
CSB	This vtd_exec must be installed on all TS7700 clusters with CSB cache.	
DS8k	This vtd_exec must be installed on all TS7700 clusters with DS8000 Object Store	
fc5282remove	This vtd_exec must be installed to remove FC 5282 from a TS7770 when the feature code is currently installed to allow FC 5283	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
preLoad	This exec must be installed on system with R5.1 or R5.2 before upgrading to 5.3 GA or above	
SDT	This vtd_exec must be installed on all TS7700 clusters with Secure Data Transfer	
security	This vtd_exec resolves a security vulnerability.	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
TPF	This vtd_exec applies to machines in TPF software environment	
TS1160encr	This vtd_exec must be installed on all TS7700 clusters with TS1160 and encryption enabled	
unjoin	This vtd_exec must be installed prior to starting a grid unjoin.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
VED	This vtd_exec must be installed on all model VED clusters.	

Hydra Code Name	Code Version	Execs
		8.52.20x.x versions below this line are below the minimum recommended levels - please update.
Hydra 5.2 Phase2	8.52.200.111 (see note 1)	103_v1.93(all) 182_v1.32(join/merge/ClusterRenumbrer) 261_v1.12(VEC/FrameMES) 269_v2.07(security) 279_v1.13(all) 331_v1.06(all) 347_v2.00(VED) 365_v1.05(all) 372_v1.04(actPrep) 385_v1.02(fc5282remove) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate) 902_v1.03(all)
Hydra 5.2 Phase1 PGA3	8.52.103.23	080_v1.37(frameMES) 103_v2.04(all) 182_v1.37(join/merge/ClusterRenumbrer) 261_v1.13(VEC/FrameMES) 269_v2.07(security) 279_v1.18(all) 347_v2.04(VED) 372_v1.04(actPrep/all) 399_v1.01(VEC) 400_v1.00(cloud) 901_v1.19(all)
Hydra 5.2 Phase1 PGA2	8.52.102.13	080_v1.37(frameMES) 103_v2.04(all) 182_v1.37(join/merge/ClusterRenumbrer) 188_v1.55(all) 261_v1.13(VEC/FrameMES) 269_v2.05(security) 279_v1.18(all) 347_v2.04(VED) 372_v1.04(actPrep/all) 391_v1.00(actFinis) 395_v1.00(TS1160encr) 396_v1.00(VED/BattDate) 398_v1.00(all) 399_v1.01(VEC) 400_v1.00(cloud) 901_v1.19(all)
		8.52.10x.x versions below this line are below the minimum recommended levels - please update.
Hydra 5.2 Phase1 PGA1	8.52.101.12	103_v1.93(all) 182_v1.32(join/merge/ClusterRenumbrer) 261_v1.12(VEC/FrameMES) 269_v2.03(security) 279_v1.13(all) 331_v1.06(all) 347_v2.00(VED) 372_v1.04(actPrep) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate) 901_v1.11(all)
Hydra 5.2 Phase1	8.52.100.32	103_v1.93(all) 182_v1.32(join/merge/ClusterRenumbrer) 188_v1.54(all) 256_v1.04(all) 261_v1.12(VEC/FrameMES) 269_v2.03(security) 279_v1.13(all) 331_v1.06(all) 334_v1.03(grid) 346_v1.04(VEC) 347_v2.00(VED) 365_v1.05(all) 372_v1.04(actPrep) 376_v1.00(SDT) 377_v1.00(DS8k) 378_v1.00(VED) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate) 901_v1.11(all)
	Note 1:	This code level is supported on model VED with FC 5283 only
Keys		
16GbFICON	This vtd_exec must be installed on all TS7700 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	
8GbFICON	This vtd_exec must be installed on all TS7700 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
actPrep	This vtd_exec must be applied a couple of days ahead of planned code update to allow the possibly needed fix to be effective when actual code load is scheduled.	
all	This vtd_exec must be installed on all machines	
BattDate	This vtd_exec must be installed on all TS7770 (3957-VED) with 3956-CSB where the backend disk cache battery VPD contains improper date stamp	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
cloud	This vtd_exec must be installed on all TS7700 clusters with Cloud Attachment	
ClusterRenumbrer	This vtd_exec must be installed prior to starting a cluster renumber.	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
CSA	This vtd_exec must be installed on all TS7700 clusters with CSA cache.	
CSB	This vtd_exec must be installed on all TS7700 clusters with CSB cache.	
DS8k	This vtd_exec must be installed on all TS7700 clusters with DS8000 Object Store	
fc5282remove	This vtd_exec must be installed to remove FC 5282 from a TS7770 when the feature code is currently installed to allow FC 5283	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
SDT	This vtd_exec must be installed on all TS7700 clusters with Secure Data Transfer	
security	This vtd_exec resolves a security vulnerability.	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
TPF	This vtd_exec applies to machines in TPF software environment	
TS1160encr	This vtd_exec must be installed on all TS7700 clusters with TS1160 and encryption enabled	
unjoin	This vtd_exec must be installed prior to starting a grid unjoin.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
VED	This vtd_exec must be installed on all model VED clusters.	

Hydra Code Name	Code Version	Execs
		8.51.x.x versions below this line are below the minimum recommended levels - please update.
Hydra 5.1 PGA2	8.51.2.12	103_v1.93(all) 182_v1.32(join/merge/ClusterRenumber) 205_v1.07(all) 261_v1.12(VEC/FrameMES) 269_v2.03(security) 279_v1.13(all) 331_v1.06(all) 347_v2.00(VED) 372_v1.04(actPrep) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate) 900_v1.14(all)
Hydra 5.1 PGA1	8.51.1.26	103_v1.93(all) 182_v1.31(join/merge/ClusterRenumber) 188_v1.54(all) 205_v1.07(all) 256_v1.04(all) 261_v1.12(VEC/FrameMES) 269_v2.02(security) 279_v1.12(all) 331_v1.06(all) 334_v1.03(grid) 346_v1.04(VEC) 347_v2.00(VED) 364_v1.02(cloud) 365_v1.05(all) 366_v1.02(all) 367_v1.00(VED) 368_v1.00(grid) 370_v1.00(all) 372_v1.04(actPrep) 376_v1.00(SDT) 377_v1.00(DS8k) 378_v1.00(VED) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate) 900_v1.10(all)
Hydra 5.1	8.51.0.63	103_v1.93(all) 182_v1.31(join/merge/ClusterRenumber) 188_v1.54(all) 205_v1.07(all) 256_v1.04(all) 261_v1.12(VEC/FrameMES) 269_v2.02(security) 279_v1.12(all) 331_v1.06(all) 334_v1.03(grid) 346_v1.04(VEC) 347_v2.00(VED) 355_v1.06(VEC) 358_v1.02(cloud) 364_v1.02(cloud) 365_v1.05(all) 366_v1.02(all) 367_v1.00(VED) 370_v1.00(all) 372_v1.04(actPrep) 377_v1.00(DS8k) 378_v1.00(VED) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate) 900_v1.10(all)
Keys		
16GbFICON	This vtd_exec must be installed on all TS7700 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	
8GbFICON	This vtd_exec must be installed on all TS7700 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
actPrep	This vtd_exec must be applied a couple of days ahead of planned code update to allow the possibly needed fix to be effective when actual code load is scheduled.	
all	This vtd_exec must be installed on all machines	
BattDate	This vtd_exec must be installed on all TS7770 (3957-VED) with 3956-CSB where the backend disk cache battery VPD contains improper date stamp	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
cloud	This vtd_exec must be installed on all TS7700 clusters with Cloud Attachment	
ClusterRenumber	This vtd_exec must be installed prior to starting a cluster renumber.	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
CSA	This vtd_exec must be installed on all TS7700 clusters with CSA cache.	
CSB	This vtd_exec must be installed on all TS7700 clusters with CSB cache.	
DS8k	This vtd_exec must be installed on all TS7700 clusters with DS8000 Object Store	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
SDT	This vtd_exec must be installed on all TS7700 clusters with Secure Data Transfer	
security	This vtd_exec resolves a security vulnerability.	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
TPF	This vtd_exec applies to machines in TPF software environment	
unjoin	This vtd_exec must be installed prior to starting a grid unjoin.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
VED	This vtd_exec must be installed on all model VED clusters.	

Hydra Code Name	Code Version	Execs
		8.50.x.x versions below this line are below the minimum recommended levels - please update.
Hydra 5.0 PGA2	8.50.2.6	103_v1.89(all) 182_v1.31(join/merge/ClusterRenumber) 188_v1.54(all) 205_v1.07(all) 256_v1.04(all) 261_v1.12(VEC/FrameMES) 269_v2.00(security) 279_v1.11(all) 334_v1.03(grid) 343_v1.07(all) 346_v1.04(VEC) 347_v1.06(VED) 348_v1.00(unjoin) 355_v1.06(VEC) 357_v1.01(VEC/actFinis) 358_v1.02(cloud) 363_v1.00(all) 364_v1.02(cloud) 365_v1.05(all) 366_v1.02(all) 367_v1.00(VED) 370_v1.00(all) 372_v1.04(actPrep) 377_v1.00(DS8k) 378_v1.00(VED) 384_v1.02(security) 387_v1.00(DS8k) 391_v1.00(actFinis) 396_v1.00(VED/BattDate)
Hydra 5.0 PGA1	8.50.1.25	103_v1.89(all) 182_v1.31(join/merge/ClusterRenumber) 188_v1.53(all) 205_v1.06(all) 256_v1.03(all) 261_v1.12(VEC/FrameMES) 269_v1.18(security) 279_v1.10(all) 343_v1.07(all) 344_v1.01(all) 346_v1.02(VEC) 347_v1.04(VED) 350_v1.00(all) 352_v1.01(all) 354_v1.01(all) 355_v1.06(VEC) 357_v1.01(VEC/actFinis) 364_v1.02(Cloud) 367_v1.00(VED) 370_v1.00(all) 372_v1.01(VEC)
Hydra 5.0 PGA0	8.50.0.140	103_v1.89(all) 182_v1.31(join/merge/ClusterRenumber) 188_v1.53(all) 205_v1.06(all) 220_v1.06(copy export/recovery) 256_v1.03(all) 261_v1.12(VEC/FrameMES) 269_v1.17(security) 344_v1.01(all) 346_v1.02(VEC) 347_v1.04(VED) 352_v1.01(all) 355_v1.06(VEC) 360_v1.01(all) 364_v1.02(Cloud) 367_v1.00(VED) 370_v1.00(all) 377_v1.00(DS8k)
Hydra 5.0	8.50.0.134	103_v1.89(all) 182_v1.31(join/merge/ClusterRenumber) 188_v1.53(all) 205_v1.06(all) 220_v1.06(copy export/recovery) 256_v1.03(all) 261_v1.12(VEC/FrameMES) 269_v1.15(security) 332_v1.00(tapeAtt) 334_v1.01(all) 335_v1.00(VED) 337_v1.00(all) 339_v1.01(tapeAtt) 340_v1.00(16GbFICON) 342_v1.02(VED) 344_v1.01(all) 346_v1.02(VEC) 347_v1.04(VED) 352_v1.01(all) 355_v1.06(VEC) 360_v1.01(all) 364_v1.02(Cloud) 370_v1.00(all) 377_v1.00(DS8k)
Keys		
16GbFICON	This vtd_exec must be installed on all TS7700 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	
8GbFICON	This vtd_exec must be installed on all TS7700 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
actPrep	This vtd_exec must be applied a couple of days ahead of planned code update to allow the possibly needed fix to be effective when actual code load is scheduled.	
all	This vtd_exec must be installed on all machines	
BattDate	This vtd_exec must be installed on all TS7770 (3957-VED) with 3956-CSB where the backend disk cache battery VPD contains improper date stamp	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
cloud	This vtd_exec must be installed on all TS7700 clusters with Cloud Attachment	
ClusterRenumber	This vtd_exec must be installed prior to starting a cluster renumber.	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
CSA	This vtd_exec must be installed on all TS7700 clusters with CSA cache.	
CSB	This vtd_exec must be installed on all TS7700 clusters with CSB cache.	
DS8k	This vtd_exec must be installed on all TS7700 clusters with DS8000 Object Store	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
TPF	This vtd_exec applies to machines in TPF software environment	
unjoin	This vtd_exec must be installed prior to starting a grid unjoin.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
VED	This vtd_exec must be installed on all model VED clusters.	

Hydra Code Name	Code Version	Execs
		8.42.x.x versions below this line are below the minimum recommended levels - please update.
Hydra 4.2 PGA2	8.42.2.12 (see note 1)	103_v1.86(all) 182_v1.27(join/merge/ClusterRenumber) 205_v1.06(VEC/VED) 205_v1.05(V07/VEB) 220_v1.06(copy export/recovery) 256_v1.03(all) 269_v1.18(security/VEC) 269_v1.14(security/V07/VEB) 279_v1.10(VEC) 314_v1.04(16GbFICON) 331_v1.03(all) 338_v1.01(all) 341_v1.00(V07/VEB) 344_v1.01(all) 346_v1.02(VEC) 352_v1.01(VEC)
Hydra 4.2 PGA1	8.42.1.8 (see notes 1, 3)	103_v1.86(all) 155_v1.05(FrameMES) 182_v1.25(join/merge/ClusterRenumber) 202_v2.11(security) 241_v1.43(all) 244_v1.05(see-details) 264_v1.08(LDAP) 269_v1.14(security) 298_v1.03(all) 308_v1.01(grid) 312_v1.00(all) 314_v1.04(16GbFICON) 317_v1.40(actFinis) 320_v1.14(all) 325_v1.00(8GbFICON/16GbFICON) 326_v1.03(all) 331_v1.03(all) 341_v1.00(V07/VEB) 344_v1.01(all) 346_v1.02(VEC)
Hydra 4.2	8.42.0.71 (see note 2)	244_v1.05(see-details) 202_v2.11(security)
		Note 1: This code level is supported on all model VEC, and on V07/VEB with 32G memory. V07/VEB are End of Support.
		Note 2: TS7700 code level R4.2 GA (8.42.0.71) is red-lighted. Update to R4.2 PGA2 (8.42.2.12) or higher.
		Note 3: The following vtd_exec have been listed for PGA2 only, to promote use of PGA2, yet can be utilized for PGA1 too: 182_v1.27, 279_v1.10(VEC)
Keys		
all	This vtd_exec must be installed on all machines	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
ClusterRenumber	This vtd_exec must be installed prior to starting a cluster renumber.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
TPF	This vtd_exec applies to machines in TPF software environment	
V07	This vtd_exec must be installed on all model V07 clusters.	
VEB	This vtd_exec must be installed on all model VEB clusters.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.	
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.	
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.	
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.	
CSA	This vtd_exec must be installed on all TS7760 clusters with CSA cache.	
8GbFICON	This vtd_exec must be installed on all TS7760 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
16GbFICON	This vtd_exec must be installed on all TS7760 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	

Hydra Code Name	Code Version	Execs
		8.41.x.x versions are below the minimum recommended levels - please update.
Hydra 4.12 PGA1	8.41.201.4 (see note 1)	103_v1.86(all) 182_v1.25(join/merge/ClusterRenumber) 202_v2.11(security) 241_v1.43(all) 244_v1.05(see-details) 256_v1.02(all) 264_v1.08(LDAP) 269_v1.17(security/VEC) 269_v1.14(security/V07/VEB) 279_v1.10(VEC) 298_v1.03(all) 299_v1.07(16GbFICON) 304_v1.05(8GbFICON/16GbFICON) 316_v1.10(all) 317_v1.40(actFinis) 321_v1.0(all) 326_v1.03(all) 331_v1.03(all) 341_v1.00(V07/VEB) 344_v1.01(all)
Hydra 4.1 Phase2b	8.41.200.113 (see note 1)	103_v1.86(all) 182_v1.25(join/merge/ClusterRenumber) 188_v1.52(all) 202_v2.11(security) 220_v1.05(copy export/recovery) 241_v1.43(all) 244_v1.05(see-details) 269_v1.09(security) 279_v1.10(VEC) 297_v1.01(all) 298_v1.03(all) 299_v1.07(16GbFICON) 300_v1.01(actFinis) 301_v1.00(ClusterRenumber) 302_v1.00(tapeAtt) 304_v1.05(8GbFICON/16GbFICON) 307_v1.00(grid) 308_v1.01(grid) 309_v1.00(LDAP) 312_v1.00(all) 316_v1.10(all) 317_v1.40(actFinis) 341_v1.00(V07/VEB)
Hydra 4.1 Phase 2a	8.41.200.108 (see note 2)	244_v1.05(see-details) 286_v1.11(all)
Hydra 4.1 Phase2	8.41.200.63 (see note 2)	244_v1.05(see-details) 292_v1.0(all)
Hydra 4.1 Phase1a	8.41.101.10 (see note 1)	103_v1.85(all) 182_v1.25(join/merge/ClusterRenumber) 200_v1.01(all) 220_v1.05(copy export/recovery) 240_v1.06(all) 241_v1.43(all) 244_v1.05(see-details) 264_v1.07(LDAP) 265_v1.03(all) 266_v1.03(VEC) 269_v1.09(security) 279_v1.08(security) 341_v1.00(V07/VEB)
Hydra 4.1 Phase1	8.41.100.15 (see note 1)	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9/CSA) 182_v1.25(join/merge/ClusterRenumber) 188_v1.49(all) 200_v1.01(all) 220_v1.05(copy export/recovery) 230_v1.07(see-details) 231_v1.31(VEB/VEC) 240_v1.06(all) 241_v1.42(all) 244_v1.05(see-details) 264_v1.07(LDAP) 265_v1.03(all) 266_v1.03(VEC) 269_v1.05(security) 275_v1.03(all) 277_v1.02(all) 278_v1.00(copy export) 279_v1.03(security) 289_v1.11(see-details) 341_v1.00(V07/VEB)
		Note 1: This code level is supported on all model VEC, and on V07/VEB with 32G memory. V07/VEB are End of Support.
		Note 2: This version is red-lighted and no longer available. Install 8.41.200.113 or higher instead.
Keys		
all	This vtd_exec must be installed on all machines	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
actFinis	This vtd_exec must be applied during a code update between act_go and act_finis. Do not install it on clusters that have already been successfully updated.	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
tapeAtt	This vtd_exec must be installed on all clusters attached to a TS3500 or TS4500 tape library (V07, VEB-T, VEC-T)	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
ClusterRenumber	This vtd_exec must be installed prior to starting a cluster renumber.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
TPF	This vtd_exec applies to machines in TPF software environment	
V07	This vtd_exec must be installed on all model V07 clusters.	
VEB	This vtd_exec must be installed on all model VEB clusters.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.	
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.	
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.	
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.	
CSA	This vtd_exec must be installed on all TS7760 clusters with CSA cache.	
8GbFICON	This vtd_exec must be installed on all TS7760 clusters with 8 Gb FICON adapters (FC 3438 or 3439)	
16GbFICON	This vtd_exec must be installed on all TS7760 clusters with 16 Gb FICON adapters (FC 3402 or 3403)	

Hydra Code Name	Code Version	Execs
		8.40.x.x is below the minimum recommended levels - please update.
Hydra 4.0 PGA2a	8.40.2.12 (see note 2)	103_v1.85(all) 182_v1.25(join/merge/ClusterRenumber) 188_v1.52(all) 200_v1.01(all) 220_v1.05(copy export/recovery) 241_v1.43(all) 244_v1.05(see-details) 264_v1.08(LDAP) 266_v1.03(VEC) 269_v1.09(security) 279_v1.08(security) 289_v1.11(see-details) 305_v1.01(all) 341_v1.00(V07/VEB)
Hydra 4.0 PGA2	8.40.2.11 (see note 2)	103_v1.85(all) 182_v1.25(join/merge/ClusterRenumber) 200_v1.01(all) 220_v1.02(copy export/recovery) 244_v1.05(see-details) 266_v1.03(VEC) 269_v1.05(security) 290_v1.01(all) 305_v1.01(all) 341_v1.00(V07/VEB)
Hydra 4.0 PGA1	8.40.1.16 (see note 2)	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9/CSA) 182_v1.25(join/merge/ClusterRenumber) 188_v1.49(all) 200_v1.01(all) 202_v2.07(security) 205_v1.03(all) 220_v1.02(copy export/recovery) 230_v1.07(see-details) 231_v1.31(VEB/VEC) 240_v1.06(all) 241_v1.42(all) 244_v1.05(see-details) 264_v1.07(LDAP) 265_v1.03(all) 266_v1.03(VEC) 269_v1.05(security) 275_v1.03(all) 278_v1.00(copy export) 279_v1.03(security) 341_v1.00(V07/VEB)
Hydra 4.0	8.40.0.71 (see note 1)	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9/CSA) 155_v1.04(cacheMES) 182_v1.25(join/merge/ClusterRenumber) 188_v1.49(all) 200_v1.01(all) 202_v2.07(security) 205_v1.03(all) 220_v1.02(copy export/recovery) 224_v1.02(all) 230_v1.07(see-details) 231_v1.31(VEB/VEC) 234_v1.11(all) 238_v2.03(all) 240_v1.06(all) 244_v1.05(see-details) 248_v1.01(tapeAttMES) 252_v1.01(all) 253_v1.01(all) 255_v1.00(VEC) 256_v1.01(all) 264_v1.07(LDAP) 265_v1.03(all) 266_v1.03(VEC) 269_v1.05(security) 341_v1.00(V07/VEB)
	Note 1: This code level is only supported on model VEC.	
	Note 2: This code level is supported on model VEC, and on V07/VEB with 32G memory. V07/VEB are End of Support.	
Keys		
all	This vtd_exec must be installed on all machines	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
TPF	This vtd_exec applies to machines in TPF software environment	
V07	This vtd_exec must be installed on all model V07 clusters.	
VEB	This vtd_exec must be installed on all model VEB clusters.	
VEC	This vtd_exec must be installed on all model VEC clusters.	
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.	
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.	
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.	
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.	
CSA	This vtd_exec must be installed on all TS7760 clusters with CSA cache.	

Hydra Code Name	Code Version	Execs
		8.33.x.x is below the minimum supported levels for VEC - please update.
Hydra 3.3 PGA3	8.33.3.14 (see note 1)	103_v1.85(all) 182_v1.25(join/merge/ClusterRenumber) 188_v1.52(all) 205_v1.03(all) 220_v1.05(copy export/recovery) 241_v1.43(all) 264_v1.08(LDAP) 269_v1.14(security) 279_v1.08(security) 290_v1.01(all)
Hydra 3.3 PGA2	8.33.2.9	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9) 155_v1.04(cacheMES) 182_v1.25(join/merge/ClusterRenumber) 188_v1.52(all) 200_v1.01(all) 202_v2.07(security) 205_v1.03(all) 220_v1.02(copy export/recovery) 230_v1.07(see-details) 231_v1.31(VEB) 239_v1.00(all) 240_v1.06(all) 241_v1.42(all) 264_v1.07(LDAP) 265_v1.03(all) 269_v1.07(security) 275_v1.03(all) 278_v1.00(copy export) 279_v1.08(security)
Hydra 3.3 PGA1a	8.33.1.13	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9) 155_v1.04(cacheMES) 182_v1.25(join/merge/ClusterRenumber) 188_v1.49(all) 200_v1.01(all) 202_v2.07(security) 205_v1.03(all) 211_v1.15(see-details) 220_v1.02(copy export/recovery) 224_v1.02(all) 227_v1.04(all) 230_v1.07(see-details) 231_v1.31(VEB) 234_v1.11(all) 238_v2.03(all) 239_v1.00(all) 240_v1.06(all) 241_v1.41(all) 246_v1.03(VEC join/merge) 248_v1.01(tapeAttMES) 256_v1.01(all) 264_v1.07(LDAP) 265_v1.03(all) 269_v1.05(security)
Hydra 3.3 PGA1	8.33.1.11	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9) 155_v1.04(cacheMES) 182_v1.25(join/merge/ClusterRenumber) 188_v1.49(all) 200_v1.01(all) 202_v2.07(security) 205_v1.03(all) 211_v1.15(see-details) 220_v1.02(copy export/recovery) 224_v1.02(all) 227_v1.04(all) 230_v1.07(see-details) 231_v1.31(VEB) 234_v1.11(all) 238_v2.03(all) 239_v1.00(all) 240_v1.04(all) 241_v1.41(all) 246_v1.03(VEC join/merge) 248_v1.01(tapeAttMES) 252_v1.01(all) 253_v1.01(all) 256_v1.01(all) 264_v1.07(LDAP) 265_v1.03(all)
Hydra 3.3	8.33.0.45	103_v1.85(all) 154_v1.84(CC7/CC8/CC9/CS9) 155_v1.04(cacheMES) 182_v1.25(join/merge/ClusterRenumber) 188_v1.49(all) 200_v1.01(all) 202_v2.07(security) 205_v1.03(all) 211_v1.15(see-details) 213_v1.10(security) 214_v1.10(security) 215_v1.10(security) 216_v2.03(CC8/CS8/CC9/CS9) 220_v1.02(copy export/recovery) 224_v1.02(all) 227_v1.04(all) 229_v2.0(security) 230_v1.07(see-details) 231_v1.31(VEB) 234_v1.11(all) 235_v1.10(security) 238_v2.03(all) 239_v1.00(all) 240_v1.06(all) 241_v1.41(all) 243_v1.01(all) 246_v1.03(VEC join/merge) 248_v1.01(tapeAttMES)
		Note 1: This code level is supported on all model V07/VEB with 16GB memory. V07/VEB are End of Support.
Keys		
all	This vtd_exec must be installed on all machines	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
VEC join/merge	This vtd_exec must be installed prior to starting a grid join or merge with a VEC.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
TPF	This vtd_exec applies to machines in TPF software environment	
V07	This vtd_exec must be installed on all model V07 clusters.	
VEB	This vtd_exec must be installed on all model VEB clusters.	
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.	
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.	
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.	
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.	

Hydra Code Name	Code Version	Execs
		8.32.x.x is below the minimum supported levels for V07/VEB - please update.
Hydra 3.2 PGA3	8.32.3.8	103_v1.68(all) 154_v1.84(CC7/CC8/CC9/CS9) 155(cacheMES) 182(join/merge) 188_v1.49(all) 202_v2.07(security) 205 (all) 211(see-details) 216(CC8/CS8/CC9/CS9) 220_v1.02(copy export/recovery) 223_v1.15(all) 224(all) 227(all) 230(see-details) 231(VEB) 234(all) 238(all) 239(all) 240_v1.06(all) 241_v1.42(all) 243(all) 246_v1.03(VEC join/merge) 248(tapeAttMES) 252(all) 256(all) 264_v1.07(LDAP) 269_v1.05(security) 279_v1.08(security)
Hydra 3.2 PGA2	8.32.2.1	103_v1.68(all) 154_v1.84(CC7/CC8/CC9/CS9) 155(cacheMES) 182(join/merge) 188_v1.49(all) 202_v2.07(security) 205(all) 211(see-details) 213(security) 214(security) 215(security) 216(CC8/CS8/CC9/CS9) 220_v1.02(copy export/recovery) 223_v1.15(all) 224(all) 225(all) 227(all) 228(all) 229_v2.0(security) 230(see-details) 231(VEB) 234(all) 235(security) 236(see-details) 238(all) 239(all) 240_v1.06(all) 243(all) 246_v1.03(VEC join/merge) 248(tapeAttMES) 252(all) 256(all) 264_v1.07(LDAP)
Hydra 3.2 PGA1	8.32.1.8	103_v1.68(all) 154_v1.84(CC7/CC8/CC9/CS9) 155(cacheMES) 182(join/merge) 188_v1.49(all) 202_v2.07(security) 205(all) 211(see-details) 213(security) 214(security) 215(security) 216(CC8/CS8/CC9/CS9) 220_v1.02(copy export/recovery) 223_v1.15(all) 224(all) 225(all) 227(all) 228(all) 229_v2.0(security) 230(see-details) 231(VEB) 234(all) 235(security) 236(see-details) 238(all) 239(all) 240_v1.04(all) 243(all) 246_v1.03(VEC join/merge) 248(tapeAttMES) 252 (all) 256(all)
Hydra 3.2 PGA0	8.32.0.88	103_v1.68(all) 154_v1.84(CC7/CC8/CC9/CS9) 155(cacheMES) 182(join/merge) 188_v1.49(all) 209(security) 210(security) 211(see-details) 220(copy export/recovery) 223(all) 225(all) 227(all) 228(all) 231(VEB) 236(see-details) 246_v1.03(VEC join/merge)
Hydra 3.2	8.32.0.84	103_v1.68(all) 154_v1.84(CC7/CC8/CC9/CS9) 155(cacheMES) 182(join/merge) 188_v1.49(all) 203(see-details) 204(all) 206(all) 209(security) 210(security) 211(see-details) 220(copy export/recovery) 223(all) 225(all) 227(all) 228(all) 231(VEB) 236(see-details) 246_v1.03(VEC join/merge)
Keys		
all	This vtd_exec must be installed on all machines	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
tapeAttMES	This vtd_exec must be installed prior to starting a Tape Attach MES	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
VEC join/merge	This vtd_exec must be installed prior to starting a grid join or merge with a VEC.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
TPF	This vtd_exec applies to machines in TPF software environment	
V07	This vtd_exec must be installed on all model V07 clusters.	
VEB	This vtd_exec must be installed on all model VEB clusters.	
CC7	This vtd_exec must be installed on all TS7740 clusters with CC7 cache	
CS7	This vtd_exec must be installed on all TS7720 clusters with CS7 cache.	
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.	
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.	
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.	
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.	

Hydra Code Name	Code Version	Execs
		8.31.x.x is below the minimum supported level for V07/VEB - please update.
Hydra 3.1 PGA1	8.31.1.4	103(all) 154_v1.84(CC7,CC8,CC9,CS9) 155(cacheMES) 180(CC9, CS9) 182(join/merge) 188(all) 200(all) 203(see-details) 205(all) 209(security) 210(security) 211(see-details) 217(V07, VEB) 223(all) 227(all) 242(CC9,CS9) 246(VEC join/merge)
Hydra 3.1 PGA0c	8.31.0.92	103(all) 154_v1.84(CC7,CC8,CC9,CS9) 155(cacheMES) 171(see-details) 173(V07, VEB) 180(CC9, CS9) 182(join/merge) 185(all) 188(all) 191(all) 194(all) 200(all) 203(see-details) 205(all) 209(security) 210(security) 211(see-details) 217(V07, VEB) 223(all) 227(all) 242(CC9,CS9) 246(VEC join/merge)
Hydra 3.1 PGA0b	8.31.0.91	103(all) 154_v1.84(CC7,CC8,CC9,CS9) 155(cacheMES) 171(see-details) 173(V07, VEB) 180(CC9, CS9) 182(join/merge) 185(all) 188(all) 191(all) 192(all) 194(all) 195(security) 200(all) 203(see-details) 205(all) 209(security) 210(security) 211(see-details) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Hydra 3.1	8.31.0.89	103(all) 154_v1.84(CC7,CC8,CC9,CS9) 155(cacheMES) 171(see-details) 173(V07, VEB) 180(CC9, CS9) 182(join/merge) 185(all) 188(all) 191(all) 192(all) 194(all) 195(security) 200(all) 203(see-details) 205(all) 209(security) 210(security) 211(see-details) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Keys		
all	This vtd_exec must be installed on all machines	
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.	
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).	
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES	
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge	
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.	
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.	
VEC join/merge	This vtd_exec must be installed prior to starting a grid join or merge with a VEC.	
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.	
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.	
security	This vtd_exec resolves a security vulnerability.	
TPF	This vtd_exec applies to machines in TPF software environment	
V07	This vtd_exec must be installed on all model V07 clusters.	
VEB	This vtd_exec must be installed on all model VEB clusters.	
CC7	This vtd_exec must be installed on all TS7740 clusters with CC7 cache	
CS7	This vtd_exec must be installed on all TS7720 clusters with CS7 cache.	
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.	
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.	
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.	
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.	

Hydra Code Name	Code Version	Execs
		8.30.x.x is below the minimum supported level for V07/VEB – please update.
Hydra 3.0 PGA3	8.30.3.4	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 173(V07, VEB) 180(CC9, CS9) 182(join/merge) 188(all) 191(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 209(security) 210(security) 217(V07, VEB) 223_v1.15(all) 227(all) 242(CC9,CS9) 246(VEC join/merge)
Hydra 3.0 PGA2a	8.30.2.23	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 173(V07, VEB) 180(CC9, CS9) 182(join/merge) 188(all) 191(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Hydra 3.0 PGA2	8.30.2.22	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 173(V07, VEB) 180(CC9, CS9) 182(join/merge) 188(all) 191(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Hydra 3.0 PGA1c	8.30.1.20	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 166(all) 170(see-details) 171(see-details) 173(V07, VEB) 177(see-details) 179(see-details) 180(CC9, CS9) 182(join/merge) 187(VEA/VEB) 188(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Hydra 3.0 PGA1b	8.30.1.19	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 166(all) 170(see-details) 171(see-details) 173(V07, VEB) 177(see-details) 179(see-details) 180(CC9, CS9) 182(join/merge) 187(VEA/VEB) 188(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 211(see-details) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Hydra 3.0 PGA1a	8.30.1.15	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 166(all) 170(see-details) 171(see-details) 173(V07, VEB) 176(see-details) 177(see-details) 179(see-details) 180(CC9, CS9) 182(join/merge) 187(VEA/VEB) 188(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 211(see-details) 217(V07, VEB) 223(all) 227(all) 246 (VEC join/merge)
Hydra 3.0 PGA1	8.30.1.10	103(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 161(all) 166(all) 168(all) 171(see-details) 173(V07, VEB) 176(see-details) 177(see-details) 179(see-details) 180(CC9, CS9) 182(join/merge) 187(VEA/VEB) 188(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 211(see-details) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)
Hydra 3.0	8.30.0.63	103(all) 148(join/merge) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 161(all) 166(all) 168(all) 171(see-details) 173(V07, VEB) 176(see-details) 177(see-details) 179(see-details) 180(CC9, CS9) 182(join/merge) 187(VEA/VEB) 188(all) 195(security) 196(all) 198(all) 203(see-details) 205(all) 211(see-details) 217(V07, VEB) 223(all) 227(all) 246(VEC join/merge)

Keys	
all	This vtd_exec must be installed on all machines
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.
VEC join/merge	This vtd_exec must be installed prior to starting a grid join or merge with a VEC.
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.
security	This vtd_exec resolves a security vulnerability.
TPF	This vtd_exec applies to machines in TPF software environment
V06	This vtd_exec must be installed on all model V06 clusters.
V07	This vtd_exec must be installed on all model V07 clusters.
VEA	This vtd_exec must be installed on all model VEA clusters.
VEB	This vtd_exec must be installed on all model VEB clusters.
CC6	This vtd_exec must be installed on all model V06 clusters with model CC6 cache.
CC7	This vtd_exec must be installed on all TS7740 clusters with CC7 cache
CS7	This vtd_exec must be installed on all TS7720 clusters with CS7 cache.
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.

Hydra Code Name	Code Version	Execs
		8.21.x.x is below the minimum supported level for V07/VEB – please update.
Hydra2.1PGA7	8.21.0.178	103(all) 134(CC6) 135(CC6) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 173(V07, VEB) 174_v1.05(TPF) 182(join/merge) 188_v1.49(all) 202_v2.07(security) 205(all) 209(security) 210(security) 211(see-details) 216(CC8/CS8/CC9/CS9) 217(V07, VEB) 223_v1.15(all) 229(security) 239(all) 240_v1.06(all) 241_v1.42(all) 256(all) 269_v1.05(security) 275_v1.03(all) 279_v1.08(security)
Hydra2.1PGA6b	8.21.0.165	103(all) 132(all) 134(CC6) 135(CC6) 138(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 166(all) 171(see-details) 173(V07, VEB) 177(see-details) 181(LDAP) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA6	8.21.0.163	103(all) 132(all) 134(CC6) 135(CC6) 138(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 166(all) 171(see-details) 173(V07, VEB) 177(see-details) 181(LDAP) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA5a	8.21.0.156	103(all) 132(all) 134(CC6) 135(CC6) 138(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 177(see-details) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA5	8.21.0.155	103(all) 132(all) 134(CC6) 135(CC6) 138(all) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 177(see-details) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA4a	8.21.0.145	103(all) 109(join/merge) 129(copy export/recovery) 132(all) 134(CC6) 135(CC6) 138(all) 147(frameMES) 153(see-details) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA4	8.21.0.144	103(all) 109(join/merge) 129(copy export/recovery) 132(all) 134(CC6) 135(CC6) 136(join/merge) 138(all) 147(frameMES) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA3	8.21.0.135	103(all) 109(join/merge) 129(copy export/recovery) 132(all) 134(CC6) 135(CC6) 136(join/merge) 138(all) 145(all) 147(frameMES) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA2	8.21.0.130	103(all) 109(join/merge) 129(copy export/recovery) 132(all) 134(CC6) 135(CC6) 136(join/merge) 137(all) 138(all) 140(cacheMES) 142(VEB) 143(VEB) 145(all) 147(frameMES) 154_v1.84(CC7, CC8, CC9, CS9) 155(cacheMES) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA1a	8.21.0.119	103(all) 109(join/merge) 112(frameMES, V06, V07) 118(all) 125(see-details) 126(see-details) 127(see-details) 128(V06, V07) 129(copy export/recovery) 132(all) 133(all) 134(CC6) 135(CC6) 136(join/merge) 137(all) 138(all) 140(cacheMES) 142(VEB) 145(all) 154_v1.84(CC7, CC8) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA1	8.21.0.118	103(all) 109(join/merge) 112(frameMES, V06, V07) 118(all) 124(CC7, CS7, CC8, CS8) 125(see-details) 126(see-details) 127(see-details) 128(V06, V07) 129(copy export/recovery) 132(all) 133(all) 134(CC6) 135(CC6) 136(join/merge) 137(all) 138(all) 140(cacheMES) 142(VEB) 145(all) 154_v1.84(CC7, CC8) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1 PGA0	8.21.0.72	103(all) 109(join/merge) 112(frameMES, V06, V07) 118(all) 124(CC7, CS7, CC8, CS8) 125(see-details) 126(see-details) 127(see-details) 129(copy export/recovery) 132(all) 133(all) 134(CC6) 135(CC6) 136(join/merge) 137(all) 138(all) 140(cacheMES) 142(VEB) 145(all) 154_v1.84(CC7, CC8) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)
Hydra 2.1	8.21.0.63	103(all) 109(join/merge) 112(frameMES, V06, V07) 118(all) 124(CC7, CS7, CC8, CS8) 125(see-details) 126(see-details) 127(see-details) 129(copy export/recovery) 132(all) 133(all) 134(CC6) 135(CC6) 136(join/merge) 137(all) 138(all) 140(cacheMES) 142(VEB) 145(all) 154_v1.84(CC7, CC8) 158(see-details) 166(all) 171(see-details) 173(V07, VEB) 182(join/merge) 188(all) 195(security) 205(all) 211(see-details) 217(V07, VEB) 223(all)

Keys	
all	This vtd_exec must be installed on all machines
see-details	This vtd_exec applies to specific scenarios. Read the detailed description of this vtd_exec to determine if it applies to your machine.
cacheMES	This vtd_exec must be installed prior to starting a cache MES(adding drawers/strings/frames).
frameMES	This vtd_exec must be installed prior to starting a frame replacement MES
copy export/recovery	This vtd_exec must be installed prior to starting copy export recovery or copy export merge
standalone	This vtd_exec must be installed on all standalone clusters - it does not apply to machine in a grid.
grid	This vtd_exec must be installed on all machines if they are in a grid - it does not apply to standalone clusters.
join/merge	This vtd_exec must be installed prior to starting a grid join or merge.
LDAP	This vtd_exec resolves an issue that only effects machines configured for LDAP authentication.
security	This vtd_exec resolves a security vulnerability.
TPF	This vtd_exec applies to machines in TPF software environment
V06	This vtd_exec must be installed on all model V06 clusters.
V07	This vtd_exec must be installed on all model V07 clusters.
VEA	This vtd_exec must be installed on all model VEA clusters.
VEB	This vtd_exec must be installed on all model VEB clusters.
CC6	This vtd_exec must be installed on all model V06 clusters with model CC6 cache.
CC7	This vtd_exec must be installed on all TS7740 clusters with CC7 cache
CS7	This vtd_exec must be installed on all TS7720 clusters with CS7 cache.
CC8	This vtd_exec must be installed on all TS7740 clusters with CC8 cache.
CS8	This vtd_exec must be installed on all TS7720 clusters with CS8 cache.
CC9	This vtd_exec must be installed on all TS7740 clusters with CC9 cache.
CS9	This vtd_exec must be installed on all TS7720 clusters with CS9 cache.

Hydra Code Name	Code Version	Mandatory	As Needed (Check vtd_exec for details on if it's applicable)
Hydra 2.0 PGA2	8.20.0.123	103 118 132 145 195 205	109 112 124 125 126 127 134 136 137 142 154
Hydra 2.0 PGA1b	8.20.0.119	103 118 132 145 195 205	107 109 112 124 125 126 127 134 136 137 142 154
Hydra 2.0 PGA1a	8.20.0.118	103 116 118 132 145 195 205	107 109 112 124 125 126 127 134 136 137 142 154
Hydra 2.0 PGA1	8.20.0.115	098 103 118 132 145 195 205	107 109 112 124 125 126 127 134 136 137 142 154
Hydra 2.0 PGA0	8.20.0.60	096 097 098 103 118 132 145 195 205	107 109 112 124 125 126 127 134 136 137 142 154
Hydra 2.0	8.20.0.59	096 097 098 103 118 132 145 195 205	107 109 112 124 125 126 127 134 136 137 142 154
Hydra 1.7 PGA7c	8.7.0.177	083 195 205	134 137 150 154 178
Hydra 1.7 PGA7b	8.7.0.176	083 195 205	134 137 150 154
Hydra 1.7 PGA7a	8.7.0.175	083 195 205	134 137 150 154
Hydra 1.7 PGA7	8.7.0.174	083 195 205	124 134 137 150 154
Hydra 1.7 PGA6a One Off	8.7.0.165	083 195 205	112 124 134 137 150 154
Hydra 1.7 PGA6	8.7.0.164	083 195 205	112 124 134 137 150 154
Hydra 1.7 PGA5a	8.7.0.156	083 097 106 195 205	092 093 101 102 109 111 112 134 137 150 154
Hydra 1.7 PGA5	8.7.0.155	083 097 098 106 195 205	092 093 101 102 109 111 112 134 137 150 154
Hydra 1.7 PGA4 One Off	8.7.0.144	083 088 097 098 195 205	086 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA4	8.7.0.143	083 088 097 098 195 205	086 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA3 One Off	8.7.0.135	083 088 097 195 205	086 087 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA3	8.7.0.134	083 088 097 195 205	086 087 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA2 One Off	8.7.0.129	083 088 097 195 205	086 087 089 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA2 One Off	8.7.0.128	083 088 097 195 205	086 087 089 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA2	8.7.0.127	083 088 097 195 205	086 087 089 091 092 093 101 102 112 134 137 150 154
Hydra 1.7 PGA1	8.7.0.116	083 088 097 195 205	079 086 087 089 091 092 093 101 102 112 134 137 150 154
Hydra 1.7	8.7.0.21	076 083 088 097 195 205	079 086 087 089 091 092 093 101 102 112 134 137 150 154
Hydra 1.6 PGA3	8.6.0.134	088 097	040 070 087 089 092
Hydra 1.6 PGA2	8.6.0.123	073 097	040 070 079 087 089 092
Hydra 1.6 PGA1 One Off	8.6.0.114	073 097	040 069 070 079 087 089 092
Hydra 1.6 PGA1 One Off	8.6.0.112	073 097	040 069 070 079 087 089 092
Hydra 1.6 PGA1	8.6.0.110	073 097	040 069 070 079 087 089 092
Hydra 1.6	8.6.0.107	065 097	040 069 070 079 087 089 092
Hydra 1.5 PGA5	8.5.0.214	031 048 065	040 044 061 069 070 092
Hydra 1.5 PGA4	8.5.0.199	031 048 065	040 044 061 069 070 092
Hydra 1.5 PGA3	8.5.0.198	031 048 057 065	040 044 061 069 070 092
Hydra 1.5 PGA2 One Off	8.5.0.185	031 048 057	040 044 055 061 069 070 092
Hydra 1.5 PGA2	8.5.0.184	031 048 057 065	040 044 055 061 069 070 092
Hydra 1.5 PGA1	8.5.0.171	031 048 054 065	040 044 047 055 061 069 070 092
Hydra 1.5	8.5.0.154	031 048 049 054 065	040 044 047 055 061 069 070 092
Hydra 1.4a PGA6	8.4.1.82	031 048 054	036 037 052 069
Hydra 1.4a PGA5 One Off	8.4.1.72	031 048 054 058	036 037 052 069
Hydra 1.4a PGA5	8.4.1.71	031 048 054 058	036 037 052 069
Hydra 1.4a PGA4	8.4.1.70	031 048 054 058	036 037 052 069
Hydra 1.4a PGA3	8.4.1.63	031 048 049 054	036 037 052 069
Hydra 1.4a PGA2 One Off	8.4.1.59	031 048 049 054	036 037 052 069
Hydra 1.4a PGA2	8.4.1.57	031 048 049 054	036 037 052 069
Hydra 1.4a PGA1+	8.4.1.51	031 048 049 054	036 037 038 052 069

Hydra 1.4a PGA1	8.4.1.48	031 048 049 054	036 037 038 052 069
Hydra 1.4a	8.4.1.37	031 035 048 049 054	036 037 038 052 069
Hydra 1.4 PGA4	8.4.0.39	031 035 048 049 054	001 036 037 052 069
A mandatory field bill (FBM ECA 003) to 8.4.0.39 was released to upgrade all machines that shipped with earlier code. Code versions below 8.4.0.39 are no longer supported.			