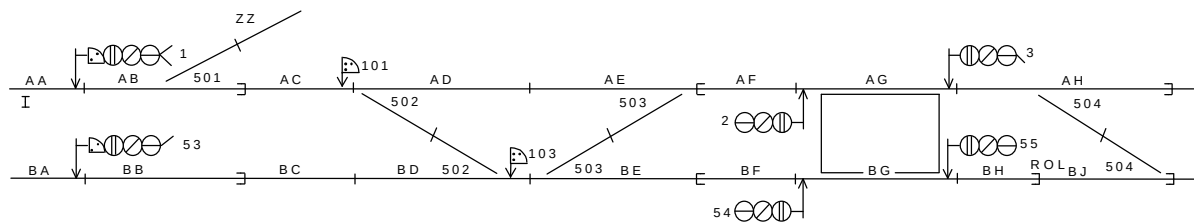


Chapter C: More Complex Data Example

1 More Complex Data Example

The following example illustrates the data required to apply the principles described above to a more complex situation where multiple preset position light shunting signals with alternative route classes exist. Full GK/RT0044 (ref. 1) controls have been applied to the routes into the platforms (see SSI8003-83).



1.1 Route List

Route	Corresponding Preset Routes
R1A(M) via 501R	-
R1B(S) to signal 101	-
R1C(M) to signal 3	R101A(PSM)
R1C(C) to signal 3	R101A(PSC)
R1D(M) to signal 55	R101B(PSM), R103B(PSM)
R1D(W) to signal 55	R101B(PSW), R103B(PSW)
R1D(C) to signal 55	R101B(PSC), R103B(PSC)
R53A(S) to signal 103	-
R53B(M) to signal 3	R103A(PSM)
R53B(C) to signal 3	R103A(PSC)
R53C(M) to signal 55	R103B(PSM)
R53C(W) to signal 55	R103B(PSW)
R53C(C) to signal 55	R103B(PSC)
R101A to signal 3	-
R101B to signal 103	-
R103A to signal 3	-
R103B to signal 55	-

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1.2 Panel Request Data

1.2.1 Route requests

```

*QR1A(M)                                / no special features

*QR1B(S)
  if R1B(S) a
    UAB-BC f
    R101A(PSM) xs , R101A(PSC) xs , R101B(PSM) xs , R101B(PSW) xs
    R101B(PSC) xs
    P501 cfn
  then R1B(S) s
    P501 cn
    UAB-CB l , UAC-BA l
    S1 clear bpull
  \ .
                                     / Panel request for shunt route
                                     / Assumes no locking of P502 or P503 by R1B(S)

*QR1C(M)
  if R1C(M) a , R101A(PSM) a
    L3(P) s
    UAB-BC f , OAF-AB f , UAG-AB f
    R1C(C) xs , R101A xs
    ( UAC-BA f or R101A(PSM) s or R101A(PSC) s )
    P501 cfn , P502 cfn , P503 cfn
    @0L504A
  then R1C(M) s
    P501 cn , P502 cn , P503 cn
    UAB-CB l , UAC-BA l , UAD-CA l , UAE-CA l , UAF-BA l , UAG-BA l
    @0L504Q
    S1 clear bpull
    if L101(PS)OFF xs then S101 clear bpull \
    if R101A(PSC) xs then R101A(PSM) s \
  \ .
                                     / Panel request for main route

*QR1C(C)
  if R1C(C) a , R101A(PSC) a , TAG o
    R3A xs , R3B xs
    UAB-BC f , OAF-AB f
    L2(P) s ( UAG-AB f or TAG o> 60 , UAH-AC f , UAH-BC f )
    R1C(M) xs , R101A xs
    ( UAC-BA f or R101A(PSM) s or R101A(PSC) s )
    P501 cfn , P502 cfn , P503 cfn
  then R1C(C) s
    L3(P) xs
    P501 cn , P502 cn , P503 cn
    UAB-CB l , UAC-BA l , UAD-CA l , UAE-CA l , UAF-BA l , UAG-BA l
    S1 clear bpull
    if L101(PS)OFF xs then S101 clear bpull \
    if R101A(PSM) xs then R101A(PSC) s \
  \ .
                                     / Panel request for call-on route

```

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*QR1D(M)

```

if R1D(M) a , R101B(PSM) a , R103B(PSM) a
  L55(P) s
  UAB-BC f , OBF-AB f , UBG-AB f
  R1D(W) xs , R1D(C) xs , R101B xs , R103B xs
  ( UAC-BA f or R101B(PSM) s or R101B(PSW) s or R101B(PSC) s )
  ( UBD-CA f or R103B(PSM) s or R103B(PSW) s or R103B(PSC) s )
  P501 cfn , P502 cfr , P503 cfn , P504 cfn
then R1D(M) s
  P501 cn , P502 cr , P503 cn , @P504QN
  UAB-CB l , UAC-BA l , UAD-CB l , UBD-CA l , UBE-CB l
  UBF-BA l , UBG-BA l , OBH-BA l , OBJ-BA l
  S1 clear bpull
  if L101(PS)OFF xs
  then S101 clear bpull
    if L103(PS)OFF xs
    then S103 clear bpull
  \
  \
  if R101B(PSW) xs , R101B(PSC) xs then R101B(PSM) s \
  if R103B(PSW) xs , R103B(PSC) xs then R103B(PSM) s \
\ . / Panel request for main route

```

*QR1D(C)

```

if R1D(C) a , R101B(PSC) a , R103B(PSC) a , TBG o
  R55 xs
  UAB-BC f , OBF-AB f
  L54(P) s ( UBG-AB f or TBG o> 60 , UBH-AB f )
  R1D(M) xs , R1D(W) xs , R101B xs , R103B xs
  ( UAC-BA f or R101B(PSM) s or R101B(PSW) s or R101B(PSC) s )
  ( UBD-CA f or R103B(PSM) s or R103B(PSW) s or R103B(PSC) s )
  P501 cfn , P502 cfr , P503 cfn
then R1D(C) s
  L55(P) xs
  P501 cn , P502 cr , P503 cn
  UAB-CB l , UAC-BA l , UAD-CB l , UBD-CA l , UBE-CB l
  UBF-BA l , UBG-BA l
  S1 clear bpull
  if L101(PS)OFF xs
  then S101 clear bpull
    if L103(PS)OFF xs
    then S103 clear bpull
  \
  \
  if R101B(PSM) xs , R101B(PSW) xs then R101B(PSC) s \
  if R103B(PSM) xs , R103B(PSW) xs then R103B(PSC) s \
\ . / Panel request for call-on route

```

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*QR1D(W)

```

if R1D(W) a , R101B(PSW) a , R103B(PSW) a
  UAB-BC f , UBG-AB f , OBF-AB f
  R1D(M) xs , R1D(C) xs , R101B xs , R103B xs
  ( UAC-BA f or R101B(PSM) s or R101B(PSW) s or R101B(PSC) s )
  ( UBD-CA f or R103B(PSM) s or R103B(PSW) s or R103B(PSC) s )
  P501 cfn , P502 cfr , P503 cfn
then R1D(W) s , P501 cn , P502 cr , P503 cn
  UAB-CB l , UAC-BA l , UAD-CB l , UBD-CA l , UBE-CB l
  UBF-BA l , UBG-BA l , OBH-BA l
  S1 clear bpull
  if L101(PS)OFF xs
  then S101 clear bpull
    if L103(PS)OFF xs
    then S103 clear bpull
  \
\
  if R101B(PSM) xs , R101B(PSC) xs then R101B(PSW) s \
  if R103B(PSM) xs , R103B(PSC) xs then R103B(PSW) s \
\ . / Panel request for warning route

```

*QR53A(S)

```

if R53A(S) a
  UBB-AB f
  R103A(PSM) xs , R103A(PSC) xs
  R103B(PSM) xs , R103B(PSW) xs , R103B(PSC) xs
  P502 cfn
then R53A(S) s
  P502 cn
  UBB-BA l , UBC-BA l , UBD-BA l
  S53 clear bpull
\ . / Panel request for shunt route

```

*QR53B(M)

```

if R53B(M) a , R103A(PSM) a
  L3(P) s
  UBB-AB f , OAF-AB f , UAG-AB f
  R53B(C) xs , R103A xs
  ( UBD-BA f or R103A(PSM) s or R103A(PSC) s )
  P502 cfn , P503 cfr
  @0L504A
then R53B(M) s
  P502 cn , P503 cr
  UBB-BA l , UBC-BA l , UBD-BA l , UBE-CA l , UAE-BA l
  UAF-BA l , UAG-BA l
  @0L504Q
  S53 clear bpull
  if L103(PS)OFF xs then S103 clear bpull \
  if R103A(PSC) xs then R103A(PSM) s \
\ . / Panel request for main route

```

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```

*QR53B(C)
  if R53B(C) a , R103A(PSC) a , TBG o
    R3A xs , R3B xs
    UBB-AB f , OAF-AB f
    L2(P) s ( UAG-AB f or TAG o> 60 , UAH-AC f , UAH-BC f )
    R53B(M) xs , R103A xs
    ( UBD-BA f or R103A(PSM) s or R103A(PSC) s )
    P502 cfn , P503 cfr
  then R53B(C) s
    L3(P) xs
    P502 cn , P503 cr
    UBB-BA l , UBC-BA l , UBD-BA l , UBE-CA l , UAE-BA l
    UAF-BA l , UAG-BA l
    S53 clear bpull
    if L103(PS)OFF xs then S103 clear bpull \
    if R103A(PSM) xs then R103A(PSC) s \
  \ . / Panel request for call-on route

```

*QR53C(M) / Similar to above

*QR53C(C) / Similar to above

*QR53C(W) / Similar to above

```

*QR101A
  if L101(PS)OFF s ( R101A(PSM) s or R101A(PSC) s )
  then S101 clear bpull
  else if TAG c
    then @R101A(NP)
    else @R101A(P)
  \
  \ .

```

```

*R101A(NP)
  if R101A a
    L3(P) s
    UAB-BC f , OAF-AB f , UAG-AB f
    R101A(PSM) xs , R101A(PSC) xs
    P502 cfn , P503 cfn
    @OL504A
  then R101A s
    P502 cn , P503 cn
    UAD-CA l , UAE-CA l , UAF-BA l , UAG-BA l
    @OL504Q
    S101 clear bpull
  \
  \

```