AT THE STATION

Five Trains(one named Direct), arrive at the station on a different platform(A-E) at different times(one arrives at Train).
From the clues provided can you determine the name of the Trains, their assigned platforms and arrival times?

CLUES:

The earliest arrival is on platform C, but is not the Bullet, or the Express.

The Metro (not arriving at 8:15) arrives sometime after the Direct, which arrives before the Red-eye.

The Train that arrives on platform D, is at least 10 minutes later than the Train scheduled to arrive on platform B.

Red-eye (arriving before at least 3 other trains) is not scheduled to arrive on platform A.

Metro is scheduled for platform E(sometime after 801).

The Express(arriving on platform A), arrives before only one other Train.

AT THE STATION	Direct	Metro	Express	Bullet	Red-eye	800	801	805	810	815
A										
B										
C										
D										
E										
800										
801										
805										
810										
815										

-AT THE STATION-
[SOLUTION]

A-Express-810.
B-Red-eye -801.
C-Direct-800.
D-Bullet-815.
E-Metro-805.

Step-by-Step

This first clue "The *earliest arrival* is on *platform C* but is *not the Bullet, or the Express*."

The earliest arrival would be 800, thus we have our first solution, namely, *C - 800*

, and we are also given eliminations (*"... not the Bullet, or Express."*).

Locate row C and make the eliminations: *C - Express, Bullet, 801, 805, 810, 815.*

Then for Column *800- A, B, D, E*

and Row *800 - Bullet, Express.*

- This next clue : "**The *Metro (not arriving at 8:15)* arrives *sometime after the Direct* which *arrives before the Red-eye*."**

  Lets make the first elimination in Column Metro as follows : ***Metro - 815***

  The next part of the Clue ("***... sometime after the Direct..."***) will allow us to make

  more eliminations in column ***Metro - 800, Direct - 800, 815.***

  The last part of the clue (***"... Direct arrives before Red Eye"***) , Leads to the logical elimination ***Metro - 801***

and (more importantly) in column ***Red-Eye - 800, 815*** , which leads to the solution ***Direct - 800***.

From which we make the following eliminations for Column ***Direct - 801, 805, 810, 815.***

Finally because we have (from the first clue) ***C - 800***, it follows that ***Direct - C*** must also be true, and we can make the following

eliminations(by consequence) :

C - Metro, Red-Eye (and) in column ***Direct - A, B, D, and E.***

•The next clue : "**The *Train that arrives on platform D, is at least 10 minutes later than the Train scheduled to arrive on platform B*."**

This means that the train on Plat. D cannot arrive before 815, (*since the one on plat. B can only arrive at 801, or 805,*)
and by the clue ["***... at least 10 minutes later ...***"], limits our selection for the train on platform D
(to the exclusion of all others), to the solution ***D - 815.***

(This also means we make the following eliminations in rows ***B- 810, 815*** and ***D- 801, 805, 810***),
and for column ***815 - A, B, E*** ,

Then in row ***D- Metro, Red-Eye*** (because from previous clues we know *neither of these arrives at 815*).

•The very next clue : "**The *Red-eye (arriving before at least 3 other trains)* is *not scheduled to arrive on platform A*."**

Lets make the first obvious elimination: ***[Red-eye - A.]***

and since we have ***" ... arriving before at least 3 other..."*** this means
Red Eye could not arrive at 805, 810, or 815, so by the logic of elimination,
it *could only* have arrived at 801. Therefore make the eliminations in Column ***Red-eye - 805, 810, 815,*** followed by eliminations in Row
801- Express, Bullet.

•Now our next clue states : "**The *Metro is scheduled for platform E (sometime after 801)*."**

Here, we are simply given a solution ***Metro - E*** , which leads to the eliminations starting with
Column
Metro- A , B, and D, and then in
Row ***E - Express, Bullet, Red-eye, and 801.***

•Finally the last clue is "***The Express(arriving on platform A), arrives before only one other Train*.**"

Which yields a solution ***Express-A***, (allowing us to eliminate ***A-Bullet***) ,and in
Column ***Express - B, and D.***

(Now revealing other solutions), beginning with

D - Bullet and (by consequence) ***B - Red-Eye***.

Lastly, we are told the Express is arriving ***("... before only one other Train. "***),
which, of course, means ***Express could only have arrived at 810*** , (which is before only one other train!)

(Which leads to the only remaining solution: ***Metro - 805***)

•Congratulations! Puzzle solved. To summarize:
A-Express-810.
B-Red-eye -801.
C-Direct-800.
D-Bullet-815.
E-Metro-805.

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