

# Automatic Route Selection (ARS)

April, 2006

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11-01-01     **System Numbering**  
*Assign an access code to = trunk access (example 9)*

11-09-01     **Trunk Access**  
*Assign the same access code assigned in 11-01-01 (example 9)*

26-01-01     **ARS Service**  
*0 = ARS Disabled*  
*1 = ARS Enabled*

26-01-03     **ARS Misdialed Number Handling**  
*0 = Route call out trunk group 01*  
*1 = Play warning tone*

This only works if there is no match in 26-02-01. If there is an entry in 26-02-01 this block is not looked at.

26-04-01     **ARS Class of Service**  
*0~16 ARS Classes 0~16*

If in a multiple tenant scenario and trying to use ARS to route calls to different trunk groups on a per phone basis then the phones need to be in different ARS classes. If not doing this leave this at 0.

When using multiple classes you will have multiple dial entries in 26-02-01 and they will be pointed to the different ARS classes in 26-02-04. You **MUST** set program 26-01-06 to ON or this will not work.

26-01-06     **Class of Service Match Access**  
*0 = OFF*  
*1 = ON*

If using multiple ARS classes this must be set to ON or the calls will not route properly.

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- 26-02-01     **ARS Dial Tables (1~400)**  
*Route each dial entry (like 1-14-01 in IPK) to an ARS Dial Table (1~400)*

When breaking out digits and using wild cards to finish the breakout you need to add as many wild card entries as the amount of digits broken out for the call to route properly.

Example:       1214555  
              1214556  
              1214@@@

If you do not do the 1214@@@ the rest of the 214 numbers will not Route properly. If that was all the 1+ numbers needed the next entry would be 1@@@@@@

When using ARS COS all entries broken out have to be the same length or the calls will not route properly or route at all.

- 26-02-02     **Service Type**  
*0 = None*  
*1 = Route to trunk group*  
*2 = select F-Route access*

- 26-02-03     **Additional data (Used when 26-02-02 is assigned as a 1 or 2)**

*If 26-02-02 was a 1 then the valid entries are 0~100.*

*0 = No Route*

*1~100 Trunk Groups 1~100*

*If 26-02-02 was a 2 then the valid entries are 0~500*

*0 = No F-Route*

*1~500 = F-Routes 1~500.*

*(It will then look at 44-01-01 ARS/F-Route time schedule. If set to 0 it goes to 44-05-01. If set to a 1 it starts at 44-10-01 ARS/F-Route Holiday/Weekly/Time schedule then on to 44-05-01)*

- 26-02-04     **ARS Class of Service**  
*0~16 = ARS Classes 0~16*

If multiple dial table entries from 26-02-01 are used for multiple ARS classes this is where you assign the entries to a class. Verify that 26-01-06 is set to ON.

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26-02-05     **Dial Treatment** (This is for ARS only. It will not work if entries are pointed to an F-Route)

*0 = No Dial Treatment*

*1~15 Dial treatment tables 1~15 and the data is assigned in 26-03-01*

You would route dial entries to dial treatment tables if you need to manipulate the digits.

Example:     Add digits, Delete digits, etc.

Use this when routing the digits to a trunk group. If routing them to a F-Route use 44-05-08 per F-Route instead of per entry.

26-03-01     **ARS Dial Treatments**

*1~15 = tables 1~15 for details refer to manual*

Example:     To add a 9 in front of the number this is an example: D019RE

D01 = dial digits to be added is 01

9 = add 9

R = repeat it

E = end

44-01-01     **ARS/F-Route Time Schedule**

*0 = No Time schedule used go to 44-05-01*

*1 = Time schedule used go to 44-10-01, 44-09-01, and 44-08-01*

44-10-01     **Yearly Holiday Schedule for ARS/F-Route**

*Can set the day of the year to a schedule pattern defined in 44-08-01*

0101~1231 = January 1<sup>st</sup> to December 31<sup>st</sup>.

0 = No time pattern

1~10 Time patterns 1~10 defined in 44-08-01

44-09-01     **Weekly Schedule for ARS/F-Route**

*Can send the day of the week to a schedule pattern defined in 44-08-01*

*1~7 = Sunday ~ Saturday*

*1~10 = Time patterns 1~10 defined in 44-08-01*

44-08-01     **Time Schedule for ARS/F-Route**

*1~10 = Time pattern 1~10*

*1~20 = Time number*

(Basically a line entry to specify start and end time to a ARS/F-Route time mode 1~8)

*0000~2359 = Start Time*

*0000~2359 = End Time*

*1~8 = ARS/F-Route Time modes defined in 44-04-01*

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- 44-04-01     **ARS/F-Route Selection for Time Schedule**  
*0 = No entry*  
*1~500 ARS/F-Route Table number defined in 44-05-01*
- 44-05-01     **ARS/F-Route table**  
*Tables 1~500 all have 4 different priorities for all 44-05-XX blocks*
- 0 = No trunk group*  
*1~100 = Trunk groups 1~100*  
*101~150 = Networking (NOT SURE ABOUT THIS)*  
*255 = Extension call*
- 44-05-02     **Delete Dial Digits**  
*Enter the number of digits to be deleted*
- 0~255            0 = No digits deleted*  
*255 = All digits deleted*
- This will only delete digits if it starts off as an F-Route in 11-01-01 and not as a trunk access and routing through ARS. To delete or add digits through ARS use dial treatments in 44-05-08.
- 44-05-03     **Additional Dial Digit Table**  
*0 = No digits added*  
*1~1000 = Table number for additional digits dialed (defined in 44-06-01)*
- This will only add digits if it starts off as an F-Route in 11-01-01 and not as a trunk access and routing through ARS. To delete or add digits through ARS use dial treatments in 44-05-08.
- 44-06-01     **Additional Dial Table**  
*Enter up to 24 digits to be added to each table 1~1000.*
- 44-05-04     **Beep tone**  
*0 = No tone heard when lower priority trunk group is selected*  
*1 = tone heard when lower priority trunk group is selected*
- 44-05-05     **Gain Table Number for Internal Calls**  
*0 = No Setting*  
*1~500 Gain Tables 1~500 defined in 44-07-XX*
- 44-05-06     **Gain Table Number for Tandem Connections**  
*0 = No Setting*  
*1~500 Gain Tables 1~500 defined in 44-07-XX*

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44-07-01	<b>Incoming Transmit</b> <i>1~63 = -15.5db ~ +15.5db</i>	}	This is for Incoming Calls
44-07-02	<b>Incoming Receive</b> <i>1~63 = -15.5db ~ +15.5db</i>		
44-07-03	<b>Outgoing Transmit</b> <i>1~63 = -15.5db ~ +15.5db</i>	}	This is for Outbound Calls
44-07-04	<b>Outgoing Receive</b> <i>1~63 = -15.5db ~ +15.5db</i>		

44-05-07     **ARS Class of Service**  
*0~16 = ARS classes 0~16*

If using ARS and multiple F-Route "Classes of Service" you must set 26-01-07 to (1) ARS. The reason for this is that the call came from ARS and is splitting COS in 26-02-04. You still need to program 26-01-06 and 26-02-04.

26-01-07     **F-Route ACS COS**  
*0 = F-Route*  
*1 = ARS*

44-05-08     **Dial treatment**  
*0 = No Dial Treatment*  
*1~15 Dial treatment tables 1~15 and the data is assigned in 26-03-01*

You would route dial entries to dial treatment tables if you need to manipulate the digits.

Example:     Add digits, Delete digits, etc.

44-05-09     **Max Digits**  
*0 = No Max*  
*1~24 = Digits 1~24 (Used for CCIS/ISDN)*