Find Available Appointments Utility

This is a utility that allows user interaction as well as having three programmer entry points (APIs). All return **future** available appointment information to the user. Depending on the use selection, it will display a list of appointments within a date range or only the **first** available appointment for a clinic. The “quiet” version simply returns data in the variable **SDRETURN**.

# Entry Points:

**EN^SDNEXTAD –** This allows the selection of one: 1) the first available appointment on or after the date selected or 2) a range of available appointments determined by the date range entered.   
  
Syntax: **D EN^SDNEXTAD**

**User interaction**  
  
**Select a CLINIC: - select** a clinic for which to return future appointments. **Do you want only the first available appointment? No// -** Answer Y or NIf you answer Y: **Beginning date for the appointment search: NOW// -** enter any valid future date. For “today’s appointments accept the default. This returns:  
  
**Next Available Appointment**

**For Clinic: GREEN TEAM (15 minute appointments)**

**JAN 12,2015 08:00 (1) (Read: 1 slot available at 8:00 AM on 1/12/15)**

**Enter RETURN to continue or '^' to exit:**If you answer N this it asks:

Beginning date for the appointment search: NOW// (JAN 09, 2015)

Ending date for the appointment search: T+90// (APR 09, 2015)

It returns this:

Available Appointments From JAN 9,2015 to APR 9,2015

For Clinic: GREEN TEAM (15 minute appointments)

1. Mon JAN 12,2015 08:00 (1) 2. Mon JAN 12,2015 08:15 (1)

3. Mon JAN 12,2015 08:30 (1) 4. Mon JAN 12,2015 08:45 (1)

5. Mon JAN 12,2015 09:00 (1) 6. Mon JAN 12,2015 09:15 (1)

7. Mon JAN 12,2015 09:30 (1) 8. Mon JAN 12,2015 09:45 (1)

9. Mon JAN 12,2015 10:00 (1) 10. Mon JAN 12,2015 10:15 (1)

11. Mon JAN 12,2015 10:30 (1) 12. Mon JAN 12,2015 10:45 (1)

13. Mon JAN 12,2015 11:00 (1) 14. Mon JAN 12,2015 11:15 (1)

15. Mon JAN 12,2015 11:30 (1) 16. Mon JAN 12,2015 11:45 (1)

Enter RETURN to continue or '^' to exit:

The APIs:

To use the APIs, data must be sent to the function:

1. **QUIET^SDNEXTAV(SC,SBDATE,SDEDATE,SDDELARR)** – For the clinic and date supplied, it returns a single array, **SDRETURN**, which contains a VA Fileman date and time and the number of available slots for it, separated by an up-arrow. No interactive output is generated and the next available appointment is returned in **SDRETURN**. The array SDHR is left defined if indicated in the API call.  
     
   Required variables:  
     
    **SC** – the IEN of the clinic  
   **SDBDATE –** the beginning date to search  
   **SDEDATE –** the ending date to search. You must supply a date but if less than 90 days, an automatic 90-day end date is inserted.  
   **SDDELARR** – 1=kill the SDHR array, 0=leave defined

Syntax: **D QUIET^SDNEXTAV(SC,SDBATE,SDEDATE,SDDELARR)**

Output example:  
  
**SDRETURN=”3150105.09^4”**

Possible error messages returned in **SDRETURN  
  
CLINIC\_NOT\_FOUND** - The IEN of the clinic was not found.

 **CLINIC\_SETUP\_INFO\_NOT\_FOUND** – No setup information for the clinic was found.

 **NO\_CLINIC\_INCREMENTS\_PER\_HOUR** – The clinic setup did not have any increments per hour.

**NO\_NEXT\_AVAILABLE\_APPOINTMENT\_FOUND** – There was no future appointment found within the 90-day window.

1. **ONE^SDNEXTAV(SC,SDBATE,SDEDATE,SDDELARR)** – Returns a single date and time for the next appointment available for the date and clinic supplied. It is designed to return the data interactively. The array SDHR is left defined if the value of SDDELARR is 1.  
     
   Required variables:  
     
    **SC** – the IEN of the clinic  
   **SDBDATE –** the beginning date to search  
   **SDEDATE –** the ending date to search. You must supply a date but if less than 90 days, an automatic 90-day end date is inserted.  
   **SDDELARR** – 1=kill the SDHR array, 0=leave defined  
     
   Syntax: **D ONE^SDNEXTAV(SC,SDBDATE,SDEDATE,SDDELARR)**Output example:  
     
   **The next available appointment is:**

**JAN 12,2015 09:00 (4)**

1. **ALL^SDNEXTAV(SC,SDBDATE,SDEDATE,SDDELARR)** – Normally only called by SDNEXTAD and returns all appointments available for the date and clinic supplied. However, programmers may use it as they wish. It is designed to return the data interactively. The array SDHR is left defined if the value of SDDELARR is 1.  
     
   Required variables:  
     
    **SC** – the IEN of the clinic  
   **SDBDATE –** the beginning date to search  
   **SDEDATE –** the ending date to search. You must supply a date but if less than 90 days, an automatic 90-day end date is inserted.  
   **SDDELARR** – 1=kill the SDHR array, 0=leave defined  
     
   Syntax: **D ALL^SDNEXTAV(SC,SDBDATE,SDEDATE,SDDELARR)**Output example: See the example above.

# Programmer notes:

From the API calls, the following variables are left defined, (**SDHR only if indicated in the API call**) and will be the responsibility of the programmer to clean up when exiting the calling program.

**QUIET^SDNEXTAV**

**SDHR() –** An array which contains the date/hours and available slots of the clinic for a selected date range. Zero availability is returned but not displayed.

**SDRETURN** - a single variable which contains a single array containing an VA Fileman date/time and available slots, separated by an up-arrow.

**ONE^SDNEXTAV** and

**ALL^SDNEXTAV**

**SDHR() –** An array which contains the date/hours and available slots of the clinic for a selected date range. Zero availability is returned but not displayed.

Note: **SDRETURN** is not defined in these two API calls.