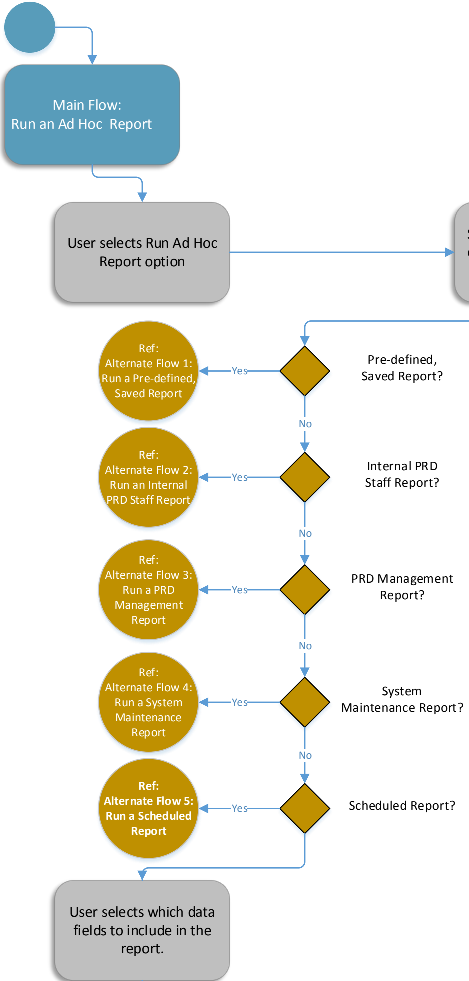
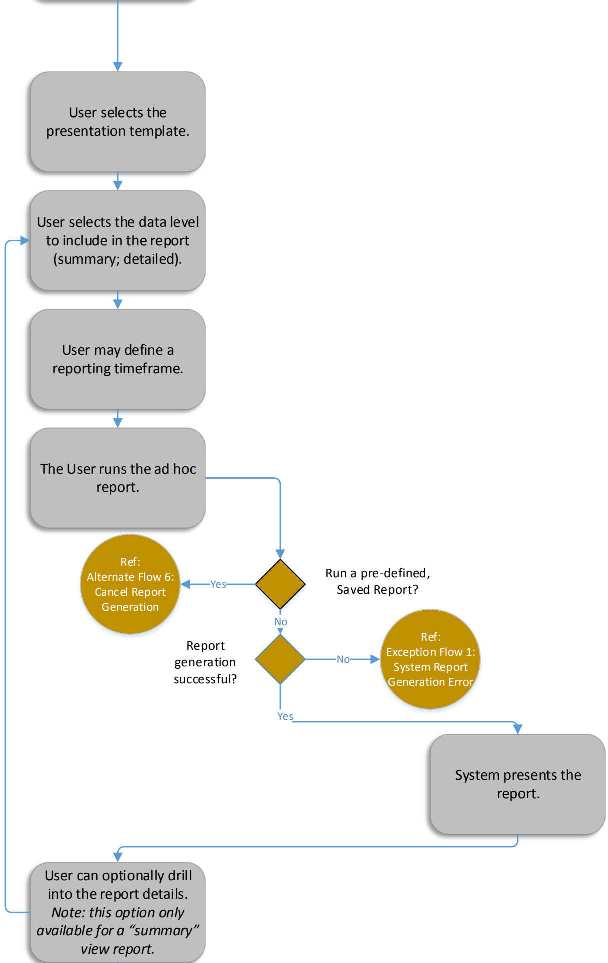
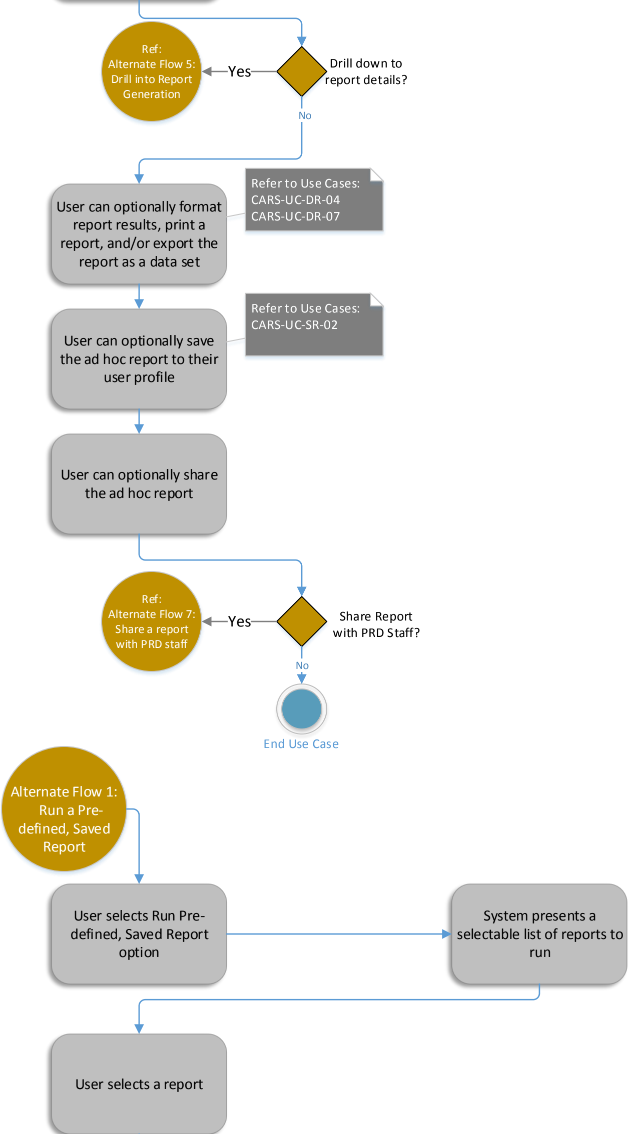
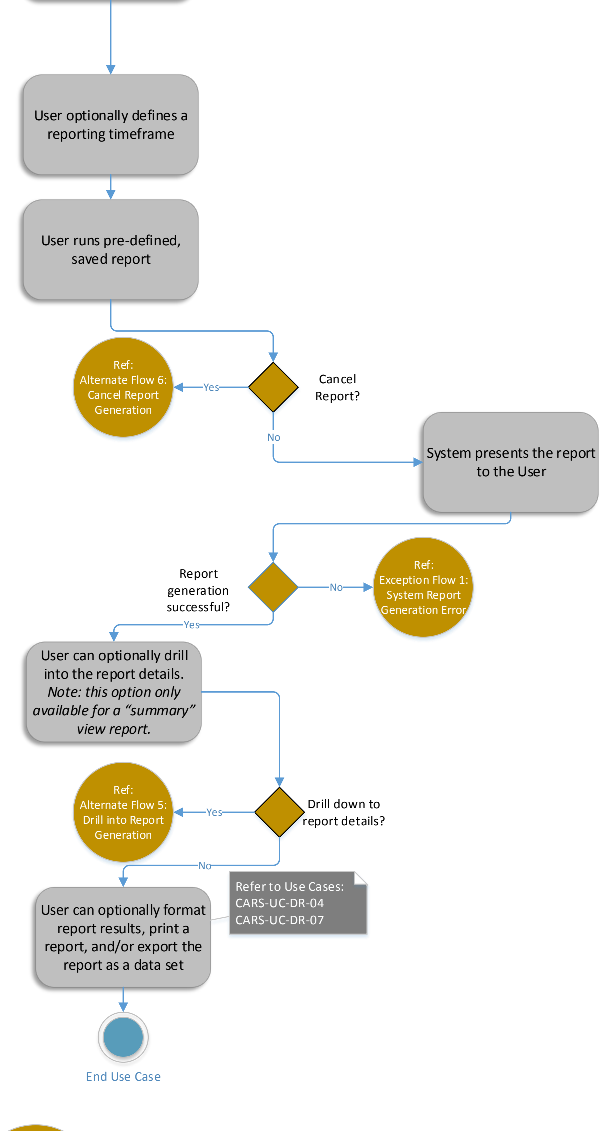
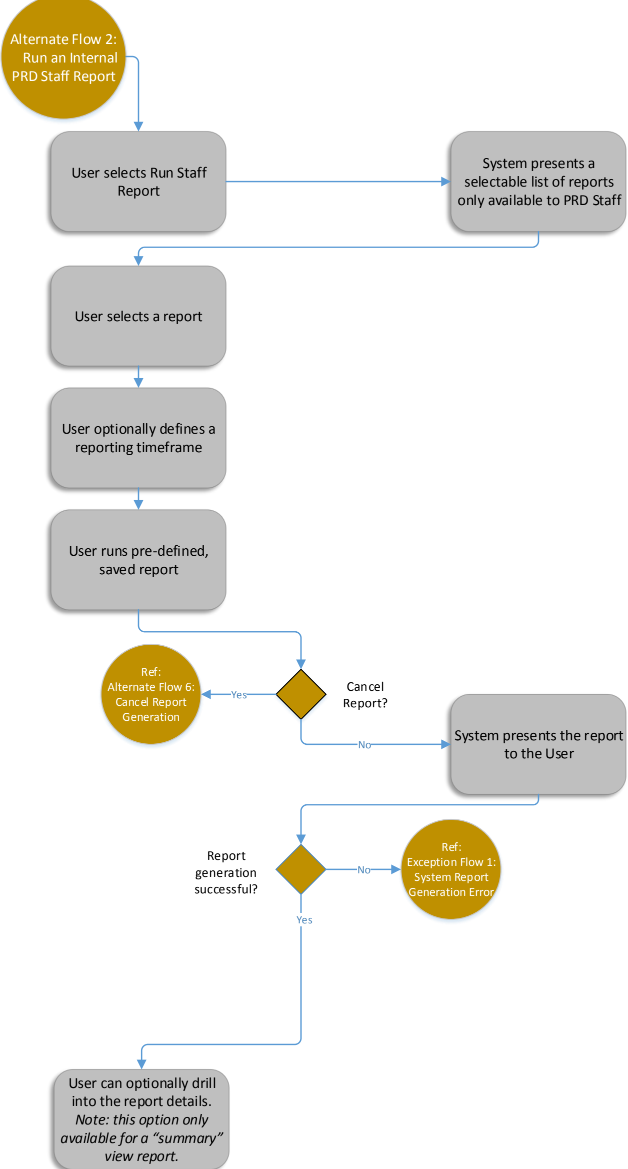
Activity Diagram – System Reports
CARS-UC-SR-01
Generate a Report
Version 0.1

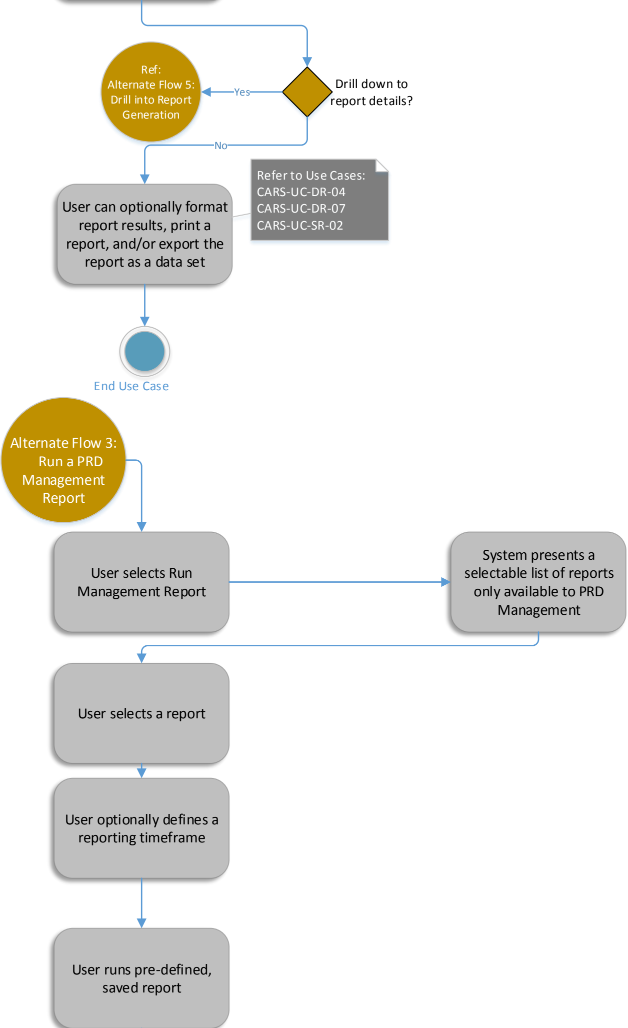

Main Flow:
Run an Ad Hoc Report
User selects Run Ad Hoc Report option
System presents a set of data fields that User can report on
Pre-defined, Saved Report?
Yes
Ref: Alternate Flow 1: Run a Pre-defined, Saved Report
No
Internal PRD Staff Report?
Yes
Ref: Alternate Flow 2: Run an Internal PRD Staff Report
No
PRD Management Report?
Yes
Ref: Alternate Flow 3: Run a PRD Management Report
No
System Maintenance Report?
Yes
Ref: Alternate Flow 4: Run a System Maintenance Report
No
Scheduled Report?
Yes
Ref: Alternate Flow 5: Run a Scheduled Report
User selects which data fields to include in the report.

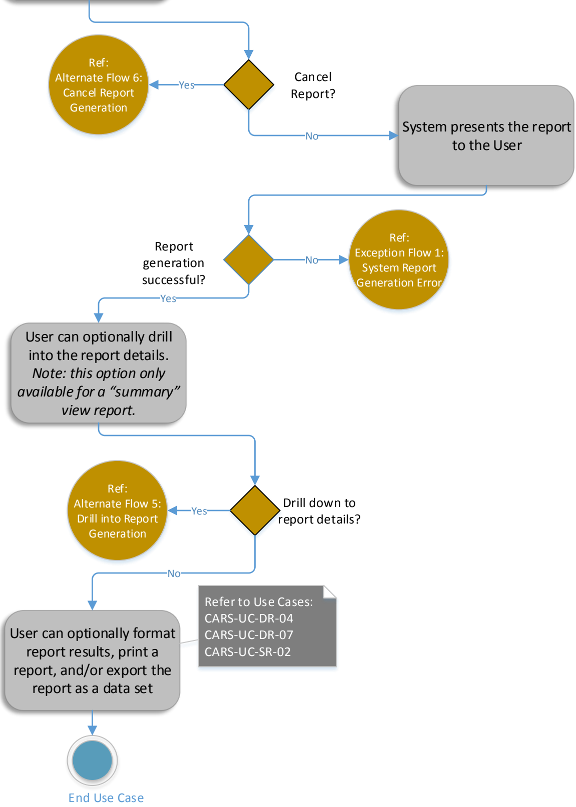

User selects the presentation template.
User selects the data level to include in the report (summary; detailed).
User may define a reporting timeframe.
The User runs the ad hoc report.
Run a pre-defined, Saved Report?
Yes
Ref: Alternate Flow 6: Cancel Report Generation
No
Report generation successful?
No
Ref: Exception Flow 1: System Report Generation Error
Yes
System presents the report.
User can optionally drill into the report details. *Note: this option only available for a "summary" view report.*

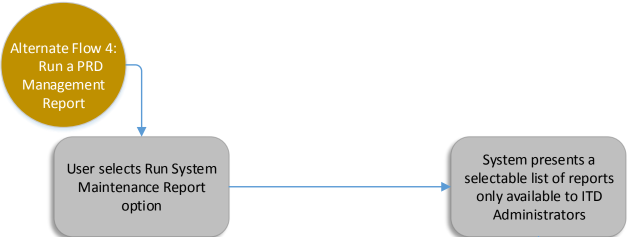

Ref:
Alternate Flow 5:
Drill into Report
Generation
Yes
Drill down to
report details?
No
User can optionally format report results, print a report, and/or export the report as a data set
Refer to Use Cases:
CARS-UC-DR-04
CARS-UC-DR-07
User can optionally save the ad hoc report to their user profile
Refer to Use Cases:
CARS-UC-SR-02
User can optionally share the ad hoc report
Ref:
Alternate Flow 7:
Share a report
with PRD staff
Yes
Share Report
with PRD Staff?
No
End Use Case
Alternate Flow 1:
Run a Pre-defined, Saved Report
User selects Run Pre-defined, Saved Report option
System presents a selectable list of reports to run
User selects a report

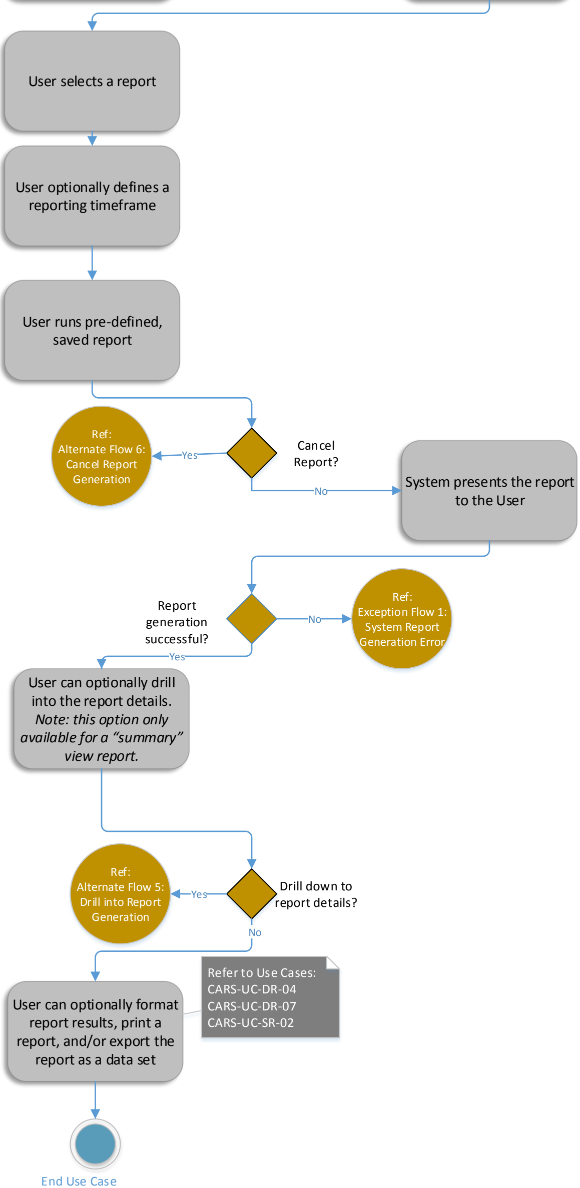

User optionally defines a reporting timeframe
User runs pre-defined, saved report
Cancel Report?
Yes
Ref: Alternate Flow 6: Cancel Report Generation
No
System presents the report to the User
Report generation successful?
No
Ref: Exception Flow 1: System Report Generation Error
Yes
User can optionally drill into the report details. *Note: this option only available for a "summary" view report.*
Drill down to report details?
Yes
Ref: Alternate Flow 5: Drill into Report Generation
No
User can optionally format report results, print a report, and/or export the report as a data set
Refer to Use Cases: CARS-UC-DR-04 CARS-UC-DR-07
End Use Case

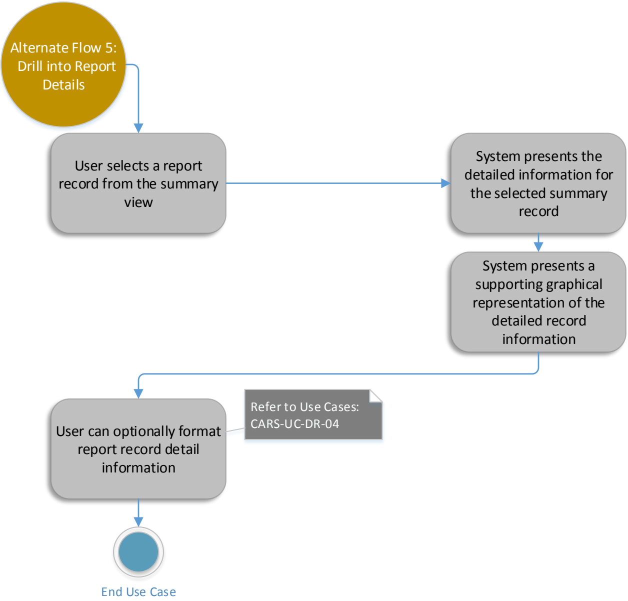

Alternate Flow 2: Run an Internal PRD Staff Report
User selects Run Staff Report
System presents a selectable list of reports only available to PRD Staff
User selects a report
User optionally defines a reporting timeframe
User runs pre-defined, saved report
Cancel Report?
Yes
Ref: Alternate Flow 6: Cancel Report Generation
No
System presents the report to the User
Report generation successful?
No
Ref: Exception Flow 1: System Report Generation Error
Yes
User can optionally drill into the report details. *Note: this option only available for a "summary" view report.*

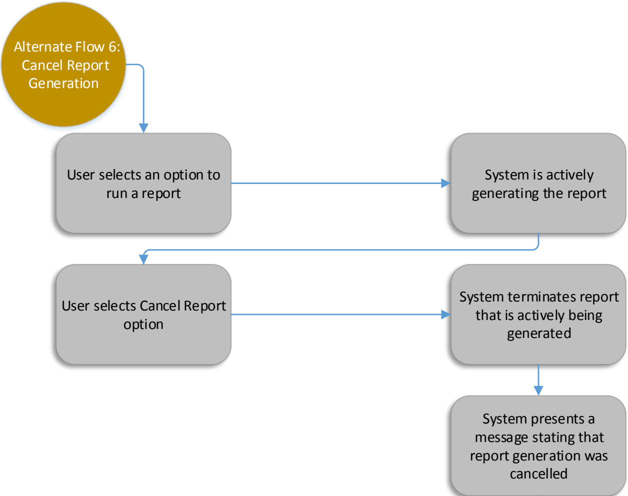

Ref:
Alternate Flow 5:
Drill into Report
Generation
Yes
Drill down to
report details?
No
Refer to Use Cases:
CARS-UC-DR-04
CARS-UC-DR-07
CARS-UC-SR-02
User can optionally format report results, print a report, and/or export the report as a data set
End Use Case
Alternate Flow 3:
Run a PRD
Management
Report
User selects Run Management Report
System presents a selectable list of reports only available to PRD Management
User selects a report
User optionally defines a reporting timeframe
User runs pre-defined, saved report

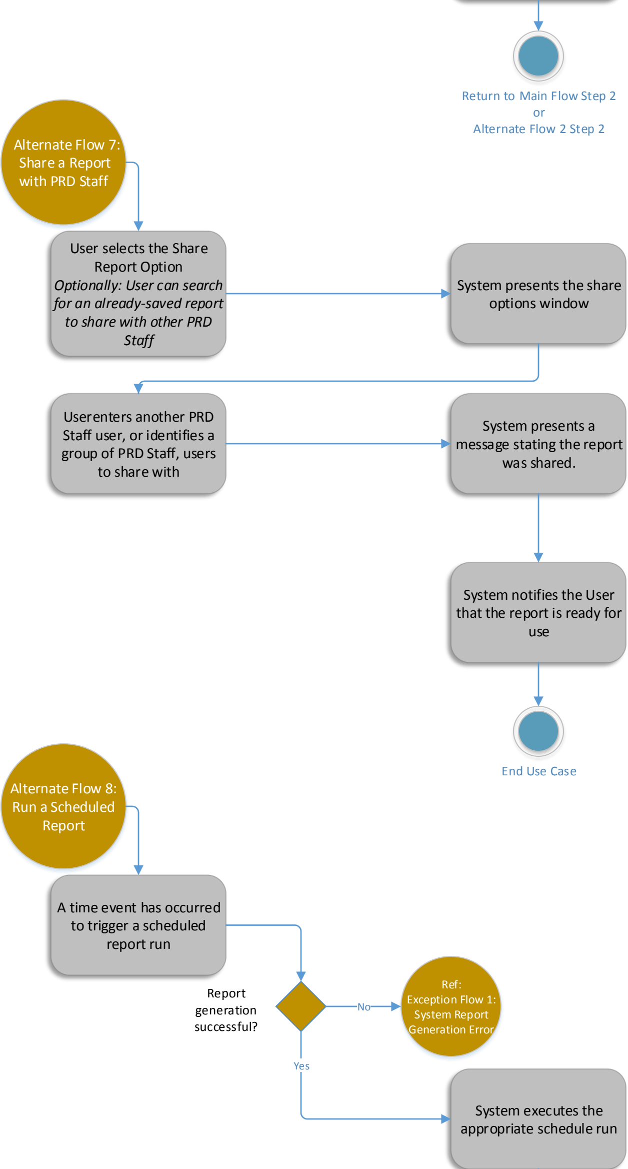

Ref:
Alternate Flow 6:
Cancel Report
Generation
Yes
Cancel
Report?
No
System presents the report
to the User
Report
generation
successful?
No
Ref:
Exception Flow 1:
System Report
Generation Error
Yes
User can optionally drill
into the report details.
Note: this option only
available for a "summary"
view report.
Ref:
Alternate Flow 5:
Drill into Report
Generation
Yes
Drill down to
report details?
No
Refer to Use Cases:
CARS-UC-DR-04
CARS-UC-DR-07
CARS-UC-SR-02
User can optionally format
report results, print a
report, and/or export the
report as a data set
End Use Case

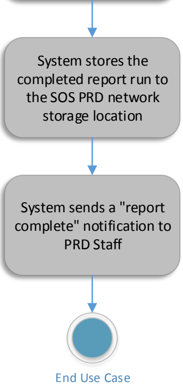

Alternate Flow 4:
Run a PRD
Management
Report
User selects Run System
Maintenance Report
option
System presents a
selectable list of reports
only available to ITD
Administrators

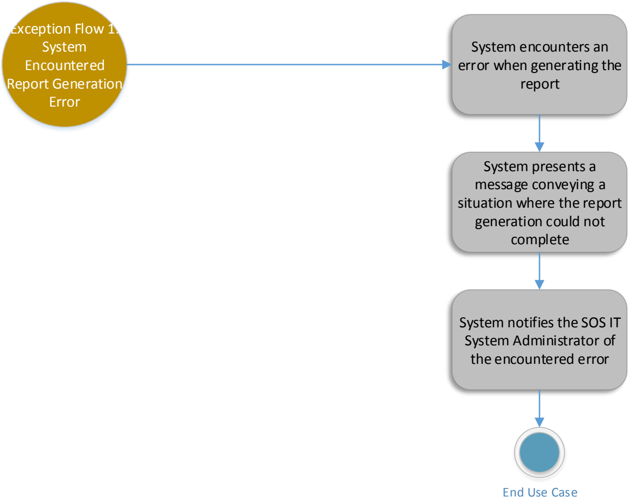

User selects a report
User optionally defines a reporting timeframe
User runs pre-defined, saved report
Ref: Alternate Flow 6: Cancel Report Generation
Yes
Cancel Report?
No
System presents the report to the User
Report generation successful?
No
Ref: Exception Flow 1: System Report Generation Error
Yes
User can optionally drill into the report details. *Note: this option only available for a "summary" view report.*
Ref: Alternate Flow 5: Drill into Report Generation
Yes
Drill down to report details?
No
Refer to Use Cases:
CARS-UC-DR-04
CARS-UC-DR-07
CARS-UC-SR-02
User can optionally format report results, print a report, and/or export the report as a data set
End Use Case


Alternate Flow 5: Drill into Report Details
User selects a report record from the summary view
System presents the detailed information for the selected summary record
System presents a supporting graphical representation of the detailed record information
User can optionally format report record detail information
Refer to Use Cases: CARS-UC-DR-04
End Use Case


Alternate Flow 6: Cancel Report Generation
User selects an option to run a report
System is actively generating the report
User selects Cancel Report option
System terminates report that is actively being generated
System presents a message stating that report generation was cancelled


Return to Main Flow Step 2
or
Alternate Flow 2 Step 2
Alternate Flow 7: Share a Report with PRD Staff
User selects the Share Report Option
Optionally: User can search for an already-saved report to share with other PRD Staff
System presents the share options window
Userenters another PRD Staff user, or identifies a group of PRD Staff, users to share with
System presents a message stating the report was shared.
System notifies the User that the report is ready for use
End Use Case
Alternate Flow 8: Run a Scheduled Report
A time event has occurred to trigger a scheduled report run
Report generation successful?
No
Ref: Exception Flow 1: System Report Generation Error
Yes
System executes the appropriate schedule run


System stores the completed report run to the SOS PRD network storage location
System sends a "report complete" notification to PRD Staff
End Use Case


Exception Flow 1: System Encountered Report Generation Error
System encounters an error when generating the report
System presents a message conveying a situation where the report generation could not complete
System notifies the SOS IT System Administrator of the encountered error
End Use Case