Debris Operational Support Through Web Applications

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Web front-ends

1. Event Visualisation with (PREEMPT)
2. Event tracking (PREEMPT Manager)
3. Re-entry tracking

Next generation tools for more efficient, scalable and reliable operational support

User friendly and modern look and feel

Seamless support of operational workflows

Ease of maintenance
Event Visualisation

PREEMPT
Event visualisation

High fidelity visualisation of situation
Multiple camera views
Time scrubbing
Event visualisation

Visualisation of conjunction geometry
Relative movement of covariance ellipsoids
Event Tracking

PREEMPT Manager
Dashboard

High level overview of the mission
Cumulative and prediction data
Analyst view

Detailed view of events and CDMs
Sorted, filtered, grouped
Filter

Advanced and easy filtering over all available fields
Ability to apply and save default filters
Event view

User friendly display of target and chaser data
Event view – CDM data

User friendly display of CDM data
Event view – trend plots

Trend plots of multiple CDM data
Event view – Log

Textual and graphical log
Log entry details easily obtained by drilling down
Event view – email

Ability to create email templates
Ability to include any combination of textual data and plots
Report generation

Ability to create customised reports of historical and future data
Re-entry Tracking
Re-entry details (preview)

Detailed tabular view of all available data
Dynamic filtering over all important fields
Re-entry dates visualisation (preview)

Visualise the re-entry dates of filtered objects
View the uncertainties on the re-entry dates and times
Re-entry date trend (preview)

View trend plots of important data
Summary
Summary

The front-ends support ESA’s services to current and future missions.

They are part of the future of operational support.

They can be deployed in any organisation if requested.

CGI can tailor PREEMPT and PREEMPT Manager for specific needs and provide license for them.