On-Demand™

Subscriber Monitoring for Customer Assurance



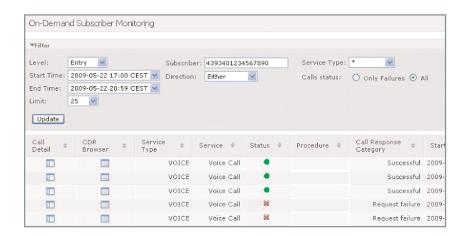




Reduce the time and costs associated with addressing customer support calls with Tektronix' On-Demand offering. On-Demand arms an operator's Customer Support personnel with information at the critical point of engagement—when the customer calls to report a problem.

Incorporating On-Demand into the support organization's toolset can minimize the time spent on the phone diagnosing problems and accelerate resolution activities.

- Quickly access diagnostic-rich traffic records for critical technical details—granularity unavailable in more traditional records used for billing purposes and other Business Support Systems (BSSs).
- A single query launched by front line support representatives may also be used by downstream network operations engineers to access more information and initiate informed resolution efforts.



Summary Views provide customer care personnel with automated queries to an underlying CDR database using simple input parameters.

On-Demand for Voice and Mobility

Leverage an underlying CDR database to populate simple customer care windows.

Platform:

UACN

Supported Data Feeds:

SS7, VolP, Mobile Core

Supported Views:

- Summary
- Detail
- Records

On-Demand for Mobile Data

Launch mobility, session and service failure data queries with ease.

Platform:

Unified Assurance for Mobile Networks

Supported Data Feeds:

 Gb, GTP, Gi, SQM and luPS with bearer and service level information

Supported Views:

- Basic
- Advanced
- Records





Summary Views support drill-through to the Detail View or the DR Browser*.

- Service Type/Service: Voice (Voice Call, Privacy, Call ID, Redirection, IM, Do Not Disturb, Emergency Services, Generic Event, Multi-Network), Mobility
- Status: Success, Failure
- Procedure: Specific signaling transactions
- Cause Category: English description based on DR Browser "Response Cause Category" information
- Start Date/Time and End Date/Time: Based on DR Browser timestamps with 1-second resolution

For Detail Vlews, select summary information is enhanced with additional data and instructions.

- Source Subscriber
- Destination Subscriber
- MSISDN
- IMSI
- SIP From/To URI
- IMEI
- High Value Account Identification
- HVA Group
- Drop
- Response Cause
- Location Name
- Error Description
- Customer Impact
- Action to Take
- Justification to the Customer



Detail Views provide more information about a specific record and may be configured to guide front line customer care personnel through desired next steps and informative dialog with end users.

Elevate Customer Support Competence and Credibility

With On-Demand, Customer Support personnel can confidently decrease their reliance on time-consuming problem assessment scripts and accelerate resolution actions.

- Easy-to-initiate queries using input parameters allow front line support
 personnel to review any subscriber's recent failure history and provide insightful details regarding actual voice, mobility and service problems
 within seconds.
- Release cause category details include descriptions, examples, actions
 and extra information to guide support communications with both
 customers and downstream network engineers. All detail fields may be
 customized to meet individual carrier needs and internal processes.

This ability to directly hone in on an individual's experience adds credibility to support organizations and their commitment to subscriber satisfaction while at the same time reducing the associated support costs.

^{*} View a selected record in the browser or automatically populate a new DR Browser query with the same parameters.





Accelerate Troubleshooting Activities

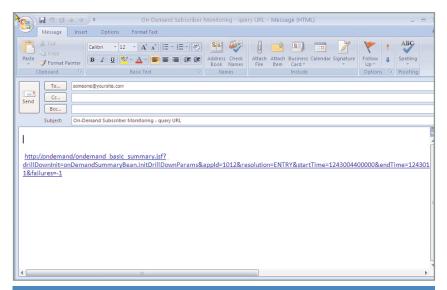
In addition to facilitating the investigation of failures associated with a particular subscriber, On-Demand offers additional capabilities for problem resolution by more seasoned support engineers.

- View complete failure records in order to identify offending network entities.
- Automatically drill from failure details to a web-based call trace and initiate troubleshooting if necessary.

Streamline Communications with Network Operations

With initial problem investigation capabilities in the hands of front line Customer Support representatives, more thorough communication of customer problems requiring operations intervention may be achieved.

 Email URL capabilities enable the sharing of investigated problems between tiered organizations and facilitates a smoother hand-off of complex problems to network operations personnel.



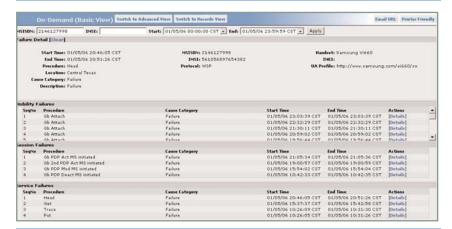
Share investigation results with downstream support engineers with a single-click.

Unified Assurance Platform Views

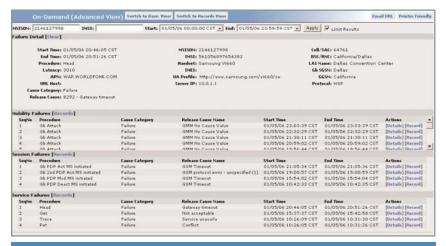
Basic and Advanced Views chronicle mobility, session and service failures based on simple IMSI/MSISDN queries.

- IMSI/MSISDN
- Start Date/Time
- End Date/Time
- Procedure
- Handset
- IMFI
- Release Cause Category
- Description*: Non-technical
- User Agent Profile (only applicable for service failures)
- Location*: SGSN (English word) + LAI (English Word) + Cell ID
- Service* (not applicable for mobility failures)
- Elements**
- Service Elements** (not applicable for mobility failures)
- Procedure Latency** (not applicable for service failures)
- End-to-End Delay (only applicable for service failures)
- Release Cause**: Number and Name
- *Basic view only.
- **Advanced view only.

On-Demand for Mobile Data Services



Basic and Advanced Views chronicle mobility, session and service failures based simple on IMSI/MSISDN queries. "Details" links guide customer care personnel to logical next steps based on defined operating procedures.



Advanced views also support drill-through to "Records" views with access to network-level call trace applications.

About Tektronix:

Tektronix Communications provides network operators and equipment manufacturers around the world an unparalleled suite of network diagnostics and management solutions for fixed, mobile, IP and converged multi-service networks.

This comprehensive set of solutions support a range of architectures and applications such as LTE, fixed mobile convergence, IMS, broadband wireless access, WiMAX, VoIP and triple play, including IPTV.

For Further Information:

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

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