



Memorandum

To: Deepika Nagaraj Mike Lambeth

cc: Michael Lacasse Dave Schmitt Neil Horner Tony Kerr
Ralph Groves Michael Reynolds Matt Morgan

From: John Effland

Date: 2008-04-24

Revs: 1.0 2008-04-23 jee Initial
2.0 2008-04-24 jee Added input for initial screen, device selection, changed status screen,
and removed Add Event screen

Subject: Proposed Internet Browser Screens to Manage Band 6 Preamp Construction

This memo provides sample screenshots for the browser-based system to manage Band 6 preamps. The design is based on the existing task management database so that we can leverage that already written PHP code.

While modifying the screens to include Mike Lambeth's suggestions, I decided to simplify the design by allowing the user to add data by simply clicking a symbol next to each parameter as shown in [Table 3](#).

[Table 1](#) is a sample browser screen showing the proposed listing for preamps. The drop-down box with text view All contains items listed in [Table 2](#) and looks similar to [Figure 1](#).

Pressing the Add a Preamp button loads a web page that allows inputting a new serial number, user name, and date into the database. New preamps can also be added by pressing the symbol next to the serial number of the preamp status screen in [Table 3](#).

The Bugs/Enhancements button loads the software bug tracking web page, which will soon be upgraded to allow requests to enhance software in addition to tracking bugs. A Help button loads an HTML help file.

The preamp serial numbers are hyperlinks, and clicking one loads the preamp status screen as shown in [Table 3](#) for that particular preamp.

Table 1: Listing Screen for all Preamps

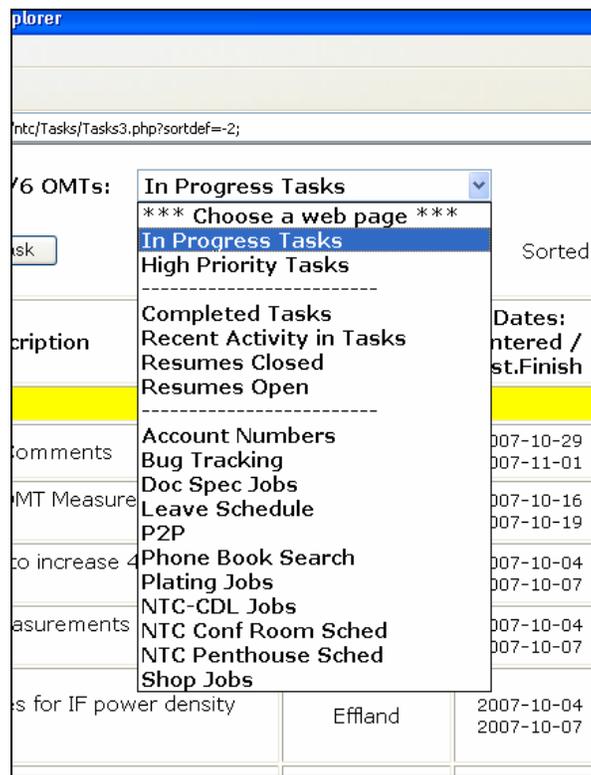
Band 6 Preamps				
View All ▼		Add a Preamp		Bugs/Enhancements
Help				
Serial #¹	RF Tested	Matched w/	In Mixer	Notes
235	2008-03-27	181	83	These notes are the same as the last entry under events for preamp 235
232	2008-04-23	227	112	These notes are the same as the last entry under events for preamp 232
229	2008-02-23			These notes are the same as the last entry under events for preamp 229
Version 0.1 (2008-04-24 08:54:27)				

Table 2: Items in view All Drop-Down Screen

Item Text	Action when selected...links to
View All	list all preamps in database
View New	list all preamps with no entries
-----	divider
Account Nums	Band 6 account number web page
Bugs	Software bug tracking web page
Leave Schedule	NTC leave schedule
Phone Book	NRAO phone book
Plating Jobs	NTC Plating job listing
NTC Tasks	NTC task web page
NTC Conf Room Sched	Conference room schedule
NTC Penthouse Sched	Penthouse schedule
Tasks Database	Band 6 task database web page
Shop Jobs	NTC machine shop job listing

¹ Table 1 is ordered from max to min serial number.

Figure 1: Sample drop-down box from Band 6 Tasks Software



[Table 3](#) lists a particular preamp’s status and all “events” associated with that preamp. Events are entries that either add or change parameters, or can be as simple as the addition of a note. [Table 3](#) displays the current state of the preamps and lists it’s history. The listing at the bottom of the screen accommodates an unlimited number of events, including those that change the same parameter. For example, hyperlinks to multiple noise temperature measurement files simply show up as different rows on the page, with the most recent hyperlink to the measurement file referenced in the status screen at the top of the page.

Events are updated by pressing the  symbol, which displays an input screen for the particular parameter.

Although preamps will be pre-loaded into the database, it seems useful to include a way to load new ones, and pressing the  next to the serial number displays an input screen to add a new preamp to the database.

Table 3: Listing Screen for Preamp Status

Band 6 Preamp Status Listing		Click  to change status		Return to Main Screen	Bugs/Enhancements	Help
Serial #	RF Tested	Matched w/	In mixer	Notes		
 235	 2008-03-27	 181	 83	 These notes are the same as the last entry under events for preamp 235		
 Warm S-Params: Link ² 2008-04-24 09:45 by ML		 Cold S-Params: Link 2008-04-24 09:45 by ML		 Noise Temps: Link 2008-04-24 09:45 by ML		 Location: ACC on 2008-04-24 09:47
 Assy Complete: 2008-04-24 09:45 by ML		 Removed from Mixer: 2008-04-24 09:55 by ML		 Machined By: NRAO on 2008-04-24 09:47		 Location: ACC on 2008-04-24 09:47
 Epoxy Batch, General: 2008-04-24 09:45 by ML		 Epoxy Batch, Mxr Bias: 2008-04-24 09:55 by ML		 Potted: 2008-04-24 09:55 by ML		
 1 st Stage ³ : Gel Pack Cell NRAO-007 D7 2008-04-24 09:45 by ML		 2 nd Stage ³ : Gel Pack Cell NRAO-007 D7 2008-04-24 09:45 by ML		 3 rd Stage ⁴ : Gel Pack Cell NRAO-007 D7 2008-04-24 09:45 by ML		
Date ⁵	Item	Details	Notes			
2008-04-23 14:44:00 Wed	Cold s-params measured by ML:	Link	This preamp was measured today			
2008-02-23 13:36:00 Wed	Cold s-params measured by ML:	Link	Intial preamp cold measurement			
2008-02-23 13:24:00 Wed	Assembly completed by ML:		This preamp was assembled today			
2008-02-23 13:33:00 Wed	Epoxy batch completed by ML:		Epoxy is getting old.			

² Selecting these hyperlinks brings up the data stored in MS Excel. Data is at UNC locations such as : [\\cvfiler.nrao.edu\cv-cdi-sis\PreampMeasData\PreampTestData\ColdTestData\171\171_Cold_1.xls](#).

³ 1st and 2nd stage device information in [\\Cvfiler\cv-cdi-pub\CHOP\CHOP_tracking.xls](#)

⁴ 3rd stage device information in [\\Cvfiler\cv-cdi-pub\CHOP\MAP100_I448A_New_Wafer_Section.xls](#)

⁵ Events are ordered chronologically with most recent at top.